

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Poly Quick Test Pen Red**

Revision date: 09.09.2019

Product code: LT01649

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

PE test ink/ PE test pen

**Further trade names**

Article no. (user):

LT01649-1ltr.

LT01649-10ltr.

LT01649-ST

LT01649-ST-M

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

test ink

**1.3. Details of the supplier of the safety data sheet**

Company name: EnTech 168 Co.,Ltd.

Street: 59 Onnut 17 Yek 3 Suanluang,

Place: Suanluang,Bangkok,Thailand 10250

Telephone: +66 2 300 2237

Telefax: +66 2 3002237

e-mail: info@dynetest.net

Internet: www.dynetest.net

**1.4. Emergency telephone number:**

+66 (0) 62 781 1199

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride

ethanol, ethyl alcohol

**Signal word:** Danger**Pictograms:****Hazard statements**

H225

Highly flammable liquid and vapour.

H318

Causes serious eye damage.

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H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face 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.

P310 Immediately call a POISON CENTER/doctor.

P370+P378 In case of fire: Use Water spray jet; alcohol resistant foam; Carbon dioxide (CO<sub>2</sub>); Extinguishing powder to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P273 Avoid release to the environment.

### 2.3. Other hazards

Results of PBT and vPvB assessment: SECTION 12: Ecological information

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No   | Chemical name   |              |                  | Quantity    |
|----------|---|--------------|------------------|-------------|
|          | EC No   | Index No     | REACH No         |             |
|          | Classification according to Regulation (EC) No. 1272/2008 [CLP]                   |              |                  |             |
| 64-17-5  | ethanol, ethyl alcohol  |              |                  | 85 - < 90 % |
|          | 200-578-6   | 603-002-00-5 | 01-2119457610-43 |             |
|          | Flam. Liq. 2, Eye Irrit. 2; H225 H319   |              |                  |             |
| 989-38-8 | 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride  |              |                  | 1 - < 5 %   |
|          | 213-584-9   |              |                  |             |
|          | Acute Tox. 3, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H301 H318 H400 H410 |              |                  |             |

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

If victim is at risk of losing consciousness, position and transport on their side.

No administration in cases of unconsciousness or cramps.

Remove contaminated, saturated clothing immediately.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

Call a doctor if you feel unwell.

#### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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**After ingestion**

Rinse mouth immediately and drink plenty of water.  
Do NOT induce vomiting.  
Call a doctor if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, Extinguishing powder.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Flammable. Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

In case of fire: Hazardous decomposition products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Gases/vapours, harmful

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.  
Co-ordinate fire-fighting measures to the fire surroundings.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.  
Suppress gases/vapours/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.  
Remove persons to safety.  
Provide adequate ventilation.  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

Avoid contact with skin and eyes.  
 Wear personal protection equipment.  
 Provide adequate ventilation as well as local exhaust at critical locations.  
 Avoid: Generation/formation of aerosols  
 Do not breathe vapour/aerosol.  
 Vapours / aerosols should be extracted by suction directly at point of origin.  
 In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
 Only use the material in places where open light, fire and other flammable sources can be kept away.  
 Take precautionary measures against static discharges.  
 (Provide earthing of containers, equipment, pumps and ventilation facilities.  
 Use only antistatically equipped (spark-free) tools.)

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking.  
 Take precautionary measures against static discharges.  
 Vapours may form explosive mixtures with air.  
 Flammable gas-air mixtures may form in empty receptacles.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.  
 Keep away from sources of ignition. - No smoking.  
 Keep container tightly closed in a cool, well-ventilated place.  
 Keep only in original container.  
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
 Floors should be impervious, resistant to liquids and easy to clean.

**Advice on storage compatibility**

Do not store together with: Oxidising agent; Acid, concentrated; Alkali (lye), concentrated  
 Observe regulations for storage of flammable liquids.

**Further information on storage conditions**

Keep only in the original container in a cool, well-ventilated place.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Protect against direct sunlight.  
 (Heating causes rise in pressure with risk of bursting.)

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No  | Substance | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-----------|------|-------------------|-----------|---------------|--------|
| 64-17-5 | Ethanol   | 1000 | 1920              |           | TWA (8 h)     | WEL    |
|         |           | -    | -                 |           | STEL (15 min) | WEL    |

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## DNEL/DMEL values

| CAS No                   | Substance              |  |          |                        |
|--------------------------|------------------------|--|----------|------------------------|
| DNEL type                | Exposure route         |  | Effect   | Value                  |
| 64-17-5                  | ethanol, ethyl alcohol |  |          |                        |
| Worker DNEL, acute       | inhalation             |  | local    | 1900 mg/m <sup>3</sup> |
| Worker DNEL, long-term   | dermal                 |  | systemic | 343 mg/kg bw/day       |
| Worker DNEL, long-term   | inhalation             |  | systemic | 950 mg/m <sup>3</sup>  |
| Consumer DNEL, acute     | inhalation             |  | local    | 950 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | dermal                 |  | systemic | 206 mg/kg bw/day       |
| Consumer DNEL, long-term | inhalation             |  | systemic | 114 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term | oral                   |  | systemic | 87 mg/kg bw/day        |

## PNEC values

| CAS No   | Substance              |  |
|--|------------------------|--|
| Environmental compartment                        | Value                  |  |
| 64-17-5  | ethanol, ethyl alcohol |  |
| Freshwater                                       | 0,96 mg/l              |  |
| Marine water                                     | 0,79 mg/l              |  |
| Freshwater sediment                              | 3,6 mg/kg              |  |
| Marine sediment                                  | 2,9 mg/kg              |  |
| Secondary poisoning                              | 0,72 mg/kg             |  |
| Micro-organisms in sewage treatment plants (STP) | 580 mg/l               |  |
| Soil   | 0,63 mg/kg             |  |

## Additional advice on limit values

ethanol, ethyl alcohol:

TRGS 900, AGW (Germany): DFG Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

## 8.2. Exposure controls



## Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

## Protective and hygiene measures

Do not breathe gas/vapour/aerosol.  
 Wear personal protection equipment.  
 Avoid contact with skin and eyes.  
 Remove contaminated, saturated clothing immediately.  
 After work, wash hands and face.  
 When using do not eat or drink.  
 Set out skin protection guidelines.

## Eye/face protection

Tightly sealed safety glasses.  
 It must be Provide eye shower and label its location conspicuously.

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**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: Butyl rubber.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Wearing of closed chemical resistant protective work clothing in addition to the personal protective equipment required.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Wash contaminated clothing before reuse.

Street clothing should be stored separately from work clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Respiratory protection necessary at: aerosol or mist formation

Combination filtering device (EN 14387): A-P2

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |         |
|-----------------|---------|
| Physical state: | liquid  |
| Colour:         | red     |
| Odour:          | Solvent |

**Test method**

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

**Changes in the physical state**

|  |                 |
|--|-----------------|
| Initial boiling point and boiling range: | 78 °C estimated |
|--|-----------------|

|              |                 |
|--------------|-----------------|
| Flash point: | 12 °C estimated |
|--------------|-----------------|

**Explosive properties**

Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

|                         |                      |
|-------------------------|----------------------|
| Lower explosion limits: | 3,5 vol. % estimated |
|-------------------------|----------------------|

|                         |                     |
|-------------------------|---------------------|
| Upper explosion limits: | 15 vol. % estimated |
|-------------------------|---------------------|

|                       |                  |
|-----------------------|------------------|
| Ignition temperature: | 425 °C estimated |
|-----------------------|------------------|

|                  |                |
|------------------|----------------|
| Vapour pressure: | not determined |
|------------------|----------------|

|          |                |
|----------|----------------|
| Density: | not determined |
|----------|----------------|

|                   |                |
|-------------------|----------------|
| Water solubility: | not determined |
|-------------------|----------------|

|                        |                |
|------------------------|----------------|
| Partition coefficient: | not determined |
|------------------------|----------------|

|                                      |                |
|--------------------------------------|----------------|
| Viscosity / kinematic:<br>(at 40 °C) | not determined |
|--------------------------------------|----------------|

|                 |                |
|-----------------|----------------|
| Vapour density: | not determined |
|-----------------|----------------|

**9.2. Other information**

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Solid content:

not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable, Ignition hazard.

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

In use may form flammable/explosive vapour-air mixture.

Used empty containers may contain product gases which form explosive mixtures with air.

#### 10.4. Conditions to avoid

UV-radiation/sunlight.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.

#### 10.5. Incompatible materials

Oxidizing agents. Alkalis (alkalis), concentrated. Acid, concentrated.

#### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

Formaldehyde. Gases/vapours, harmful

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No information available.

##### Acute toxicity

Based on available data, the classification criteria are not met.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Rat (inhalative): 8h (IRT)

No mortality within stated exposition time as shown in animal studies. Assessment derived from products with similar chemical character.

| CAS No   | Chemical name  |                   |         |          |        |
|----------|--|-------------------|---------|----------|--------|
|          | Exposure route   | Dose              | Species | Source   | Method |
| 64-17-5  | ethanol, ethyl alcohol   |                   |         |          |        |
|          | oral   | LD50 10470 mg/kg  | Rat     | OECD 401 |        |
|          | dermal   | LD50 > 2000 mg/kg | Rabbit  | OECD 402 |        |
|          | inhalative (4 h) vapour  | LC50 51 mg/l      | Rat     | OECD 403 |        |
| 989-38-8 | 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride |                   |         |          |        |
|          | oral   | ATE 100 mg/kg     |         |          |        |

#### Irritation and corrosivity

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Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Ethanol:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Irritating to eyes.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Risk of serious damage to eyes.

**Sensitising effects**

Based on available data, the classification criteria are not met.

Ethanol:

no danger of sensitization.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

No data available

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

Ethanol:

Carcinogenicity: : none

Germ cell mutagenicity: none

Reproductive toxicity: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

Carcinogenicity: : No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

**STOT-single exposure**

Based on available data, the classification criteria are not met.

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

No data available

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

No data available

**Aspiration hazard**

Based on available data, the classification criteria are not met.

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylum chloride:

not applicable



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#### Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is: Toxic to aquatic life with long lasting effects.

Ethanol:

EC50: 6500 mg/l 16 h Species: *Pseudomonas putida*

LC50: > 100 mg/l 24 h Species: *Daphnia magna*

LC50: 8140 mg/l 48 h Species: *Leuciscus idus*

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Very toxic to aquatic life with long lasting effects.

Activated sludge EC10: 7 mg/l, *Pseudomonas putida* DIN 38412 / part 27 (draft )

| CAS No  | Chemical name            |              |           |   |               |        |
|---------|--------------------------|--------------|-----------|---|---------------|--------|
|         | Aquatic toxicity         | Dose         | [h]   [d] | Species   | Source        | Method |
| 64-17-5 | ethanol, ethyl alcohol   |              |           |   |               |        |
|         | Acute fish toxicity      | LC50<br>mg/l | 13000     | 96 h<br><i>Oncorhynchus mykiss</i><br>(Rainbow trout) | OECD 203      |        |
|         | Acute algae toxicity     | ErC50        | 275 mg/l  | 72 h<br><i>Chlorella vulgaris</i>                     | OECD 201      |        |
|         | Acute crustacea toxicity | EC50<br>mg/l | 12340     | 48 h<br><i>Daphnia magna</i> (Big<br>water flea)      | ASTM E 729-80 |        |

#### 12.2. Persistence and degradability

The product has not been tested.

Ethanol:

Degree of elimination: > 70 %

Further details:

CSB: 1600 g O<sub>2</sub>/kg

BSB5: 1350 gO<sub>2</sub>/g

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Product is biodegradable with difficulty.

Effects in sewage plants (Adsorption Activated sludge): Moderately/partially eliminated from water.

| CAS No  | Chemical name                                       |       |    |           |
|---------|---|-------|----|-----------|
|         | Method  | Value | d  | Source    |
|         | Evaluation  |       |    |           |
| 64-17-5 | ethanol, ethyl alcohol                              |       |    |           |
|         | CO <sub>2</sub> - Evolution Test                    | 97%   | 28 | OECD 301B |
|         | Readily biodegradable (according to OECD criteria). |       |    |           |

#### 12.3. Bioaccumulative potential

The product has not been tested.

Ethanol:

Bioaccumulative potential: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

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**Partition coefficient n-octanol/water**

| CAS No  | Chemical name          | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol, ethyl alcohol | -0,3    |

**BCF**

| CAS No  | Chemical name          | BCF  | Species | Source |
|---------|------------------------|------|---------|--------|
| 64-17-5 | ethanol, ethyl alcohol | 0,66 |         |        |

**12.4. Mobility in soil**

The product has not been tested.

Ethanol:

The product is mobile in an aqueous environment.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

Ethanol:

This substance does not meet the criteria for classification as PBT or vPvB.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

**12.6. Other adverse effects**

The product has not been tested.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

The product contains organically bound halogen as per formulation. It may increase the AOX value when discharged from treatment plants or into natural waters.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

**Further information**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains.

**Waste disposal number of waste from residues/unused products**

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

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**14.1. UN number:** UN 1210  
**14.2. UN proper shipping name:** Printing ink related material  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 163 367 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

### Marine transport (IMDG)

**14.1. UN number:** UN 1210  
**14.2. UN proper shipping name:** Printing ink related material  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Marine pollutant: yes  
 Special Provisions: 163, 367  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 EmS: F-E, S-D

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1210  
**14.2. UN proper shipping name:** Printing ink related material  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: A3 A72 A192  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

### 14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride

### 14.6. Special precautions for user

Warning: Combustible liquids.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### Other applicable information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

The test inks are delivered in PVC pens of 4g contents or in metal canister (UN approval) with maximum filling quantity of 8,5kg or 0,87kg.

The PVC pens with test inks are no dangerous goods according to the ADR for road, RID for rail, IMDG for sea and ICAO/ IATA for air transport.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

2004/42/EC (VOC): 89,1% ~ 775,54g/l

#### National regulatory information

Water contaminating class (D): 3 - highly water contaminating

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:  
ethanol, ethyl alcohol

## SECTION 16: Other information

### Changes

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 11: Toxicological information  
SECTION 12: Ecological information

### 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  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
OECD: Organisation for Economic Cooperation and Development  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LL50: Lethal Load 50  
LD50: Lethal dose, 50%  
EC50: median effective concentration  
EL50: effective loading rate lethal to 50% of the test population  
ATE: acute toxicity estimates  
DNEL: derived no-effect level

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Poly Quick Test Pen Red**

Revision date: 09.09.2019

Product code: LT01649

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PNEC: predicted no effect concentration

PBT: Persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

NOAEL: no observed adverse effect level

LOAEL: Lowest Observed Adverse Effect Level

**Relevant H and EUH statements (number and full text)**

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapour.                   |
| H301 | Toxic if swallowed.                                   |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

**Further Information**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*