

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/19/2005

Reviewed on 05/19/2005

1 Identification of substance

- **Product details**
- **Trade name:** MLD Picture Perfect Ink
- **Article number:** MLD710
- **Manufacturer/Supplier:**
Triangle Digital LLC
2125 Williams Street
San Leandro, CA 94577
TEL: (510)895-8001
FAX: (510)895-8080
www.triangledigital.biz
- **Information department:** Product safety department.



2 Composition/Data on components

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

- **Dangerous components:**

	2-Pyrrolidinone, 1-ethyl-	10-15%
EINECS: 202-509-5	gamma-butyrolactone	9-14%
EINECS: 215-609-9	Carbon black	<5%

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

3 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
R 36 Irritating to eyes.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 2
Reactivity = 0

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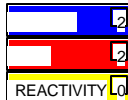
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- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

Carbon black

PEL	3.5 mg/m ³
REL	3.5* mg/m ³
	*0.1 in presence of PAHs, as PAHs; 10-hr TWA
TLV	3.5 mg/m ³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

· General Information

Form:	Fluid
Color:	According to product specification
Odor:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	175°C (347°F)

· **Flash point:** 65°C (149°F)

· **Ignition temperature:** 190.0°C (374°F)

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

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:	1.2 Vol %
Upper:	15.6 Vol %

· **Vapor pressure at 20°C (68°F):** 1.0 hPa (1 mm Hg)

· **Density:** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents:	35.6 %
VOC content:	91.6 %
	915.5 g/l / 7.64 lb/gl

· **Solids content:** 8.2 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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12 Ecological information

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**

- **Proper shipping name (technical name):** Printing ink, Non-Regulated

- **Label:** None, Non-Regulated

- **Remarks:** None, Non-Regulated

- **Land transport ADR/RID (cross-border):**

- **Description of goods:** Printing ink, Non-Regulated

- **Remarks:** None, Non-Regulated

- **Maritime transport IMDG:**

- **UN Number:**

- **Label:** None, Non-Regulated

- **Marine pollutant:** No

- **Propper shipping name:** Printing ink, Non-Regulated

- **Remarks:** None, Non-Regulated

- **Air transport ICAO-TI and IATA-DGR:**

- **UN/ID Number:**

- **Label:** None, Non-Regulated

- **Propper shipping name:** Printing ink, Non-Regulated

- **Remarks:** None, Non-Regulated

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15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

2-(2-ethoxyethoxy)ethanol

gamma-butyrolactone

Carbon black

2,4,7,9-tetramethyldec-5-yne-4,7-diol

(2-methoxymethylethoxy)propanol

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Carcinogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

gamma-butyrolactone

3

Carbon black

2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

Carbon black

A4

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

Carbon black

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**

Xi Irritant

- **Risk phrases:**

36 Irritating to eyes.

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· Safety phrases:

- 2 Keep out of the reach of children.
- 7 Keep container tightly closed.
- 14 Keep away from oxidising agents and acidic substances.
- 16 Keep away from sources of ignition - No smoking.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 56 Dispose of this material and its container to hazardous or special waste collection point.

· National regulations:

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department.
- **Contact:** Mr. Ken Kisner

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