

MATERIAL SAFETY DATA SHEET
According to 91/155/EEC

Product

WATERBASED PIGMENTED FABRIC MARKER INKS

Date: 08/20/2007

Revision Date: 08/20/2007

IFMPG-BLK70-44-A

IFMPG-RED70-44-B

IFMPG-YLW70-44-E

IFMPG-ORG70-44-F

IFMPG-BRN70-44-G

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WATERBASED PIGMENTED FABRIC MARKER INKS

SUPPLIER:

Name:

NATIONAL INK LLC

Address:

10870 HARTLEY RD.
SANTEE, CA 92071 USA

Telephone number:

US (800) 255-9324
INT'L (813) 248-0585

Recommended use:

Ink

2 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION:

Chemical nature:

Mixture based on water, glycol and dyes

Components contributing to the hazard:

Glycol

Weight: 5 - 10%

Hazardous constituents:

(CAS# 111-46-6, EINECS# 203-872-2, XI; R36, R38, S26, S36)

3 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects:

May be harmful if swallowed, irritating to eyes and skin.

Environmental effects:

Product degrades rapidly in the environment. Low aquatic toxicity.

Physical and chemical hazards:

-Fire or explosion:

Burning and thermal decomposition may form toxic by products.

Classification of the product:

According to European regulations, this product is classified as:

- IRRITANT

Further information:

In a usual writing situation, quantities of ink laid down or vapors emitted by the pen are normally too small to occasion significant exposure and cause adverse effects on the user's health.

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4 FIRST AID MEASURES

Inhalation: Move the affected person away from the contaminated area and into the fresh air.

Skin contact: Immediately wash and rinse with plenty of water.

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum). Always refer to an eye specialist, even if there are no immediate symptoms.

Ingestion: Never attempt to induce vomiting. Call a doctor immediately.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂)
Foam
Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

Specific hazards: During combustion:
Toxic Vapors may be released.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment.

Protection of fire-fighter: Self-contained breathing apparatus.
Complete protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes.
Do not breathe vapors.
Do not smoke.

Environmental precautions: Do not discharge into drains and rivers.

Methods for cleaning up:
-Neutralization: Absorb spillage with:
- inert absorbent material
- earth or sand.

-Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water.

-Disposal: Dispose of contaminated materials in accordance with current regulations.

7 HANDLING AND STORAGE

HANDLING

Precautions: Avoid any direct contact with the product.
Work in a well-ventilated area.

STORAGE

Storage conditions:
-Recommended: Store:
- in a cool, well-ventilated area
- the container tightly closed

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Incompatible materials: - away from any source of ignition
Packaging materials: Strong oxidizing agents
- Not suitable: Certain plastic materials

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: Glycerine: Not Established
Potassium Carbonate: Not Established

Personal protective equipment:

- Respiratory protection: In the event of insufficient ventilation:
Suitable breathing apparatus

- Hand protection: Impermeable protective gloves

- Eye protection: Safety spectacles

- Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain
Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Low viscosity liquid

Colour: Fl. Yellow and Fl. Green

Odour: None

pH: Not applicable

Flammability characteristics:

- Flash point: N/A Waterbased

- Auto-ignition temperature: 362 °C

Explosive limits in air:

- Lower: N/A

- Upper: N/A

Vapour density (air=1): Not known

Solubility:

- In water: Complete

10 PHYSICAL AND CHEMICAL PROPERTIES

Stability: Stable at ambient temperature and under normal conditions of use.

Hazardous reactions:

- Conditions to avoid: None

- Materials to avoid: -incompatible with strong oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia.

- Hazardous decomposition products: On combustion releases:
Carbon oxides (CO, CO₂).

11 TOXICOLOGICAL INFORMATION

Acute toxicity: N/A

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Acute symptoms: On ingestion:
Nausea
Vomiting
Central Nervous System depressant

Local effects: At high concentrations, the vapours can be irritating to the eyes, nose and throat.
Repeated or prolonged contact may cause slight irritation to the skin.

Further information: Eye contact:
Above information is for the ink. The ink will be contained in plastic tube of a small capacity pen which will limit considerably the exposure possibilities for the user.

12 ECOLOGICAL INFORMATION

Product as is: Avoid discharge of the product as is into the environment.
ECOTOXICITY:
Effects on the aquatic environment: May cause adverse effects to the aquatic environment.

13 DISPOSAL CONSIDERATIONS

WASTE FROM PRODUCT:
Destruction/Disposal: Dispose of in accordance with relevant local regulations
CONTAMINATED PACKAGING:
Destruction/disposal: Destroy at an authorized site.
NOTE: The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS: Non Hazardous; Not applicable

15 REGULATORY INFORMATION

EC LABELING: Not applicable
Ink:
Mandatory labeling (self-classification) of hazardous preparations: applicable

Symbols and indications of danger: - IRRITANT (Xi)
- R phrases: R36: Irritating to eyes.
R37: Irritating to respiration system.
R38: Irritating to skin.
-S phrases: S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36: Wear suitable protective clothing.

16 OTHER INFORMATION

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Restrictions on use: This product must not be used for other applications than those mentioned in §1.
Safety data sheet established by: Dr. Ben Fabian, Technical Director

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are only intended to help the user to fulfill his obligations regarding the use of hazardous products.

This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

Note: The supplying of a material safety data sheet is not mandatory for manufactured articles which contain dangerous substances or preparations, when these latter's are packaged so that they do not present any danger for the user.