

MATERIAL SAFETY DATA SHEET

According to European 91/155/EEC

Product WATER BASED ROLLER BALL INK

Date:09-15-2011

Revision Date:09-15-2011

Part#

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WATER BASED ROLLER BALL INK

SUPPLIER:

Name: NINGBO BEIFA ENGINEER &
DEVELOPMENT CO., LTD

Address: No.298 Jiangnan(East)Road,Ningbo China

Telephone number: 0086574-86186707

Recommended use: Ink

2 COMPOSITION/INFORMATION ON INGREDIENT

PREPARATION:

Chemical nature: Mixture based on water and dyes

| NAME | PART# | CHEMICAL NAME | CAS NO. | PERCENTAGE |
|--------------------|-------|-----------------|-----------|------------|
| ROLLER BALL INK | BLUE | WATER | 7732-18-5 | 50-70% |
| | | GLYCEROL | 56-81-5 | 10-20% |
| | | ETHYLENE GLYCOL | 107-21-1 | <10% |
| | | ACID BLUE 9 | 2650-18-2 | <3% |
| | | ACID RED 52 | 3520-42-1 | <3% |

3 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects:

Environmental effects: Contains hazardous substances(s) for the
Environment

Physical and chemical hazards:

-Fire or explosion: Unflammable liquid

Classification of the product: According to European regulations,this product
is classified as:

None

Further information: In a usual writing situation,will not cause
adverse effects on the user's health.

4 FIRST AID MEASURES

Inhalation: No specific intervention is indicated as the
compound is not likely to be hazardous by
inhalation.

Skin contact: Immediately wash and 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

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Call a doctor immediately

5 FIRE FIGHTING MEASURES

| | |
|-----------------------------------|----------|
| Suitable extinguishing media: | Not need |
| Not suitable extinguishing media: | Not need |
| Specific hazards: | Not need |
| Specific fire fighting methods: | Not need |
| Protection of fighters | Not need |

6 ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------|---|
| Personal precautions: | Avoid with eyes |
| Environmental precautions: | Do not discharge into drains and rivers |
| Methods for cleaning up: | |
| -Neutralization: | Absorb spillage with: -inert absorbent material -sand |
| -Cleaning/decontamination: | Wash non-recoverable remainder with plenty of water |
| -Disposal: | Dispose of contained materials in accordance with current regulations |

7 HANDLING AND STORAGE

HANDLING

| | |
|--------------------|---|
| Technical measure: | Not need |
| Precaution: | Avoid any direct contact with the product |

STORAGE

| | |
|-------------------------|---|
| Technical measures: | Not need |
| Storage conditions: | |
| -Recommended: | Store: -in a cool, well-ventilated area -the container tightly closed |
| Incompatible materials: | None |
| Packaging materials: | |
| -Not suitable: | Certain metal materials |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---------------------------------|---|
| Engineering measures: | Ensure good ventilation of the work station |
| Occupational exposure limits: | |
| -France: | None |
| Personal protective equipment: | |
| -Respiratory protection: | Not need |
| -Hand protection: | 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 |

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9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|------------------------------|
| Physical state: | Liquid |
| Colour: | Variable |
| Odour: | Odourless |
| PH: | 4—9 |
| Flammability characteristics: | |
| -Flash point: | >85°C |
| -Auto-ignition temperature: | |
| Explosive limits in air: | |
| -Lower: | |
| -Upper: | |
| Vapour density(air=1_: | |
| Solubility: | |
| -In water: | Miscible(in all proportions) |
| -In organic solvents: | |
| -Common organic solvents | |

10 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|--|
| Stability: | Stable at ambient temperature and under normal conditions of use |
| Hazardous reactions: | |
| -Conditions to avoid: | |
| -Materials to avoid: | On hot condition |
| -Hazardous decomposition products: | |

11 TOXICOLOGICAL INFORMATION

| | |
|----------------------|--|
| Acute toxicity: | No |
| Acute symptoms: | No |
| Local effects: | No |
| Further information: | Above information is for the ink. The Ink will be contained in the fibrous Reservoir of a small capacity fine-liner marker |

12 ECOLOGICAL INFORMATION

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

13 DISPOSAL CONSIDERATIONS

| | |
|-----------------------|--|
| WASTE FROM PRODUCT: | |
| Destruction/Disposal: | Dispose of in accordance with Relevant local regulations |

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CONTAMINATED PACKAGING:

Destruction/disposal:

Destory 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:

Land transportation:

UN Number:

-Rail/road(RID?ADR):

Class:

Classification code:

Packaging group:

Labeling:

-Sea(IMO/IMDG):

UN Number:

Class:

Classification code:

Packaging group:

Labeling:

-Air(ICAO-IATA):

UN Number:

Class:

Classification code:

Packaging group:

Labeling:

Further information:

NOTE:

The above regulatory prescriptions are those valid on the date of publication of this sheet. In case the present sheet is dating back to more than 1 year ago, it would be advisable to check their validity with your commercial agency

15 REGULATORY INFORMATION

EC LABELING:

Marker: not applicable

Ink: not need

Symbols and indications of danger:

-

-R phrases:

R21: Harmful in contact by skin

R22: Harmful if swallowed

R36: Irritating to eye

R38: Irritating to skin

R41: Risk of serious damage to eyes

-S phrases:

S7: Keep container tightly closed

S24: Avoid contact with skin

S25: Avoid contact with eyes

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S26: In case of contact with eyes, rinse
Immediately with plenty of water and seek
medical advice

S36: Wear suitable protective clothing

S39: Wear eye protection

FURTHER REGULATIONS:

National prescriptions:

France:

NOTE:

The regulatory information given above only
indicate the principal regulations specifically
applicable to the product described in the
MSDS

The cited basic community texts are being
updated and transcribed in national law

Refer to all applicable international, national
and local regulations or provisions

The user's attention is drawn to the possible
existence of additional provisions which
complete these regulations

16 OTHER INFORMATION

Restrictions on use:

This product must not be used for other
applications than mentioned in § 1

Safety data sheet established by:

Howard Young, 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 the 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.