

MATERIAL SAFETY DATA SHEET

According to 91/155/EEC

Product ROLLERBALL CORROSION INHIBITED INKS

Date: 11-04-2008

Revision Date: 11-04-2008

MSDS ID# IRBCI EU MSDS REACH

IRBCI-BLK34-62-B

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ROLLERBALL CORROSION INHIBITED INKS

SUPPLIER:

Name:

NATIONAL INK LLC

Address:

10870 HARTLEY RD

SANTEE, CA 92071

UNITED STATES OF AMERICA

Telephone number:

US (800) 255-9324

INT'L (813) 248-0585

Recommended use:

Writing pens/markers with less than 2 ml of ink fill

2 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION:

Chemical nature:

Mixture based on water, glycols and dye

Components contributing to the hazard: Ethylene Glycol

REACH# 05-2114674633-42-0000 Weight: <40%

CAS#: 107-21-1

EINECS#: 203-473-3

Black Dye

REACH# 05-2114565549-33-0000 Weight: <30%

05-2114565545-41-0000

05-2114565541-49-0000

05-2114565540-51-0000

05-2114565539-34-0000

05-2114486710-46-0000

Hazardous constituents:

Please refer to section 15 Regulatory Information

3 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:

Adverse human health effects:

Environmental effects:

Contains hazardous substances(s) for the environment

Physical and chemical hazards:

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-Fire or explosion:	Non-Flammable waterbased ink 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.

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 (CO ₂) Foam Powders
Not suitable extinguishing media:	None to our knowledge. If there is a fire close by, using suitable extinguishing agents
Specific hazards:	During combustion: None to our knowledge.
Specific fire fighting methods:	Do not attempt to fight the fire without suitable protective equipment. Ink is water based and not combustible.
Protection of fire-fighters:	Self-contained breathing apparatus Complete protective clothing

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes
Environmental precautions:	Do not discharge into drains and rivers

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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 skin contact with the product
Work in a well-ventilated area

STORAGE

Technical measures:

The floor of the depot should be impermeable and designed to form a basin to prevent leakage into the environment.

Storage conditions:

-Recommended:

Store:

- in a cool, well-ventilated area

- the container tightly closed

Incompatible materials:

Strong oxidizing agents

Packaging materials:

- Not suitable:

Uncoated metal cans may rust.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Ensure good ventilation of the work station

Occupational exposure limits:

- France:

Ethylene Glycol

Personal protective equipment:

- Respiratory protection:

Not required

- 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

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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Black
Odour:	Low odor water smell
pH:	Not applicable
Flammability characteristics:	
- Flash point:	non-flammable water based ink
- Auto-ignition temperature:	not known
Explosive limits in air:	
- Lower:	not known
- Upper:	not known
Solubility:	
- In water:	Miscible (in all proportions)
- In organic solvents:	Partially miscible with alcohols.

10 PHYSICAL AND CHEMICAL PROPERTIES

Stability:	Stable at ambient temperature and under normal conditions of use
Hazardous reactions:	
- Conditions to avoid:	None known
- Materials to avoid:	- Strong oxidizing agents
- Hazardous decomposition products:	On combustion or on thermal decomposition (pyrolysis) releases: Carbon oxides (CO, CO ₂)

11 TOXICOLOGICAL INFORMATION

Acute toxicity:	Over exposure to ethylene glycol may cause kidney and /or liver damage.
Acute symptoms:	On ingestion: Nausea Vomiting On inhalation: The ink is mostly water and has a very low odor
Local effects:	Repeated or prolonged contact may cause slight irritation to the skin Eye contact: May cause eye irritation.

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Further information:

Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker 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:

Ethylene Glycol

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:

Land transportation:

Not regulated

- Rail/road (RID/ADR):

Not regulated

- Air (ICAO-IATA):

Not regulated

15 REGULATORY INFORMATION

EC LABELING:

Marker: not applicable

Ink:

Mandatory labeling (self-classification) of hazardous preparations: applicable

Symbols and indications of danger:

- IRRITANT (Xi)

- R phrases:

R22: Harmful if swallowed

R36: Irritating to eyes

-S phrases:

S2: Keep out of the reach of children

S7: Keep container tightly closed

S26: In case of contact with eyes, rinse immediately with plenty of water and see medical advice.

S37: Wear suitable gloves (to protect hands from staining)

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FURTHER REGULATIONS:

National prescriptions:

France:

NOTE:

Maladies professionnelles (tableaux (x) n° 84): concerné

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:

Bruce Gindelberger, General Manager

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.