

MATERIAL SAFETY DATA SHEET
According to European 91/155/EEC



Product: 5 STAR GRIP BALL PEN

Date: 04/13/2007

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BLACK 423598

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GRIP BALL PEN INKS

SUPPLIER:

EVO GLOBAL HOLDINGS LIMITED

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Normanton
UK
WF6 2TZ

info@evo-group.co.uk

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Greenogue Business Park
Rathcoole
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Ireland
D24 W56C

Recommended use: Ink for refills with less than 0.5 ml ink fill.

2 COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION:

Chemical nature: Thick paste mixture based on solvents, resin and dyes.

Components contributing to the hazard:

Hazardous constituents: Xi

2-PHENOXY ETHANOL	EINECS# 231-791-2	weight %: 10-30%
AROMATIC ALCOHOL	EINECS# 202-859-9	weight %: 5-15%
GLYCOL	EINECS# 246-770-3	weight %: 5-15%
POLYKETONE RESIN	EINECS# NONE	weight%: 20-40%
BLACK DYE	CAS# 8005-02-5	weight %: 0-10%
BLACK PIGMENT	EINECS# 215-609-9	weight %: 0-5%
VIOLET DYE	EINECS# 219-831-7	weight %: 0-10%
ORANGE DYE	EINECS# 220-162-8	weight %: 0-5%
RED DYE	EINECS# 208-096-8	weight %: 0-5%
BLUE DYE	EINECS# 219-232-0	weight %: 0-5%

Not hazardous when used as intended.

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.

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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:

- Not hazardous

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 (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.

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-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
- away from any source of ignition
Strong oxidizing agents

Incompatible materials:
Packaging materials:
- Not suitable: Certain plastic materials

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: Non hazardous, 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: Thick paste

Colour: Black

Odour: None

pH: ~ 6-8

Flammability characteristics:

- Flash point: greater than 150°C

- Auto-ignition temperature: Not Established

Explosive limits in air:

- Lower: Non hazardous, not applicable

- Upper: Non hazardous, not applicable

Vapour density (air=1): Not known

Solubility:

- In water: Partial

10 PHYSICAL AND CHEMICAL PROPERTIES

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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: Potentially harmful if ingested in sufficient quantity
Acute symptoms: On ingestion:
Nausea
Vomiting

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.
Eye contact:

Further information: 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

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

Symbols and indications of danger: Xi
-R phrases: R22

-S phrases: S24/25: Avoid contact with skin and eyes
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36: Wear suitable protective clothing.

16 OTHER INFORMATION

Restrictions on use: This product must not be used for other applications than those mentioned in §1.

Safety data sheet established by: Bruce Gindelberger, General Manager
