

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 1)

· **Precautionary statements:**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash thoroughly after handling.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.

· **2.3 Other hazards** No information available.

· **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterization: Mixtures**

· **Description:**

Product: consisting of the following components.

Ingredient name	CAS No.	EC No.	Concentration (%)
Solvent black46	65113-55-5	265-449-9	30
Benzyl alcohol	100-51-6	202-859-9	25
2-Phenoxyethanol	122-99-6	204-589-7	20
Epoxy resin	24969-06-0	-	6
Keton resin	25054-06-2	-	14
Triethanolamine	102-71-6	203-049-8	4
Phosphoric acid ester	90506-69-7	291-933-4	1

gerous components:

CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol	Xn R20/22	25%
		Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 122-99-6 EINECS: 204-589-7	2-Phenoxyethanol	Xn R22; Xi R36	20%
		Acute Tox. 4, H302; Eye Irrit. 2, H319	

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 2)

4 SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:** In all cases of doubt, seek medical attention.

· **Following inhalation:**

Not expected to become a significant inhalation hazard under normal conditions of use. In case of accident by inhalation, supply fresh air and to be sure call for a doctor.

· **Following skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **Following eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **Following ingestion:** Induce vomiting, if person is conscious. Seek medical help.

· **Information for doctor:** Treat symptomatically and supportively.

· **4.2 Most important symptoms and effects, both acute and delayed** No information available.

· **4.3 Indication of any immediate medical attention and special treatment needed** No information available.

5 SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:** CO₂, dry chemical powder, water spray.

· **Unsuitable extinguishing agents:** No information available.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide

Other irritating and toxic gases.

· 5.3 Advice for firefighters

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear suitable protective clothing and eye/face protection.

6 SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Refer to Section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

(Contd. on page 4)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 3)

· **6.2 Environmental precautions**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 SECTION 7: Handling and storage

· **7.1 Handling**

· **Precautions for safe handling:**

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.
Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use this material with adequate ventilation.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.
The product is not explosive.

· **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool, dry and well-ventilated place. Store away from incompatible materials.

· **7.3 Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 SECTION 8: Exposure controls/personal protection

· **Information about design of technical facilities:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

· **8.1 Control parameters**

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

100-51-6 Benzyl alcohol (25%)

WEEL (USA) 44 mg/m³, 10 ppm

(Contd. on page 5)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 4)

102-71-6 2,2',2''-nitrioltriethanol (4%)

TLV (USA)	5 mg/m ³
-----------	---------------------

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

· **8.2 Exposure controls**

· **Appropriate engineering controls:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

· **Respiratory protection:** Suitable respiratory protective device recommended.

· **Skin protection:**



Protective gloves

· **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye and face protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information:**

· **Appearance:**

Form: Liquid

Colour: Black

· **Odour:** Odourless

· **pH-value:** Not determined.

· **Melting point/Melting range:** Not determined.

(Contd. on page 6)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 5)

· Boiling point/Boiling range:	Not determined.
· Flash point:	Not determined.
· Flammability (solid, gaseous):	Not applicable.
· Auto-Ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapour pressure:	Not determined.
· Density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in/Miscibility with:	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· 9.2 Additional information	No further relevant information available.

10 SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under recommended storage and handling conditions (see section 7, handling and storage).
- **10.2 Chemical stability** Stable under normal conditions of use, storage and transport.
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Strong heating, fire. Incompatible materials.
- **10.5 Incompatible materials**
Strong acids, strong bases or strong oxidizing agents.
Base metals.
- **10.6 Hazardous decomposition products**
Carbon monoxide
Other irritating and toxic gases.

(Contd. on page 7)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

1 SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

- **Product name:** 5 Star Ball Pen Black
- **Registration number:** No registration number is given yet for this product.

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Used to ballpen inks.

Use advised against: No information available.

· 1.3 Details of the supplier of the safety data sheet ·

Manufacturer/Supplier:

EVO GLOBAL HOLDINGS LIMITED

Newland House, Unit 2,

Express Way, Tuscany Park

Normanton

UK

WF6 2TZ

info@evo-group.co.uk

- **1.4 Emergency telephone number** NHS 111

2 SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 [CLP]**

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC [DSD] or Directive 1999/45/EC [DPD]**

Xn; R20/22

Xi; R36

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictogram(s):**



GHS07

- **Signal word:** Warning

- **Hazard statement(s):**

H319 Causes serious eye irritation.

(Contd. on page 2)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 6)

11 SECTION 11: Toxicological information

· **Acute toxicity:** No data available.

· **LD/LC50 values relevant for classification:**

100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

122-99-6 2-Phenoxyethanol

Oral	LD50	1260 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

102-71-6 2,2',2''-nitrilotriethanol

Oral	LD50	4920 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

· **Skin corrosion/irritation:** No irritant effect.

· **Serious eye damage/irritation:** Cause serious eye irritation.

· **Respiratory or skin sensitization:** No sensitizing effects known.

· **Specific target organ system toxicity:** No information available.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

12 SECTION 12: Ecological information

· 12.1 Toxicity

· **Acquatic toxicity:**

122-99-6 2-Phenoxyethanol

EC50 - Crustacea	> 500 mg/L/48h mg/L/48h (Daphnia magna)
IC50 - Algae	> 500 mg/L/72 h mg/L/48h (Desmodesmus subspicatus (green algae))
LC50 - Fish	220 - 460 mg/L/48h (Leuciscus idus (Golden orfe))

102-71-6 2,2',2''-nitrilotriethanol

LC50 - Fish	450 - 1000 mg/L mg/L/48h (Lepomis macrochirus)
EC50 - Crustacea	609,88 mg/L/48h mg/L/48h (Daphnia magna)
IC50 - Algae	216 mg/L/72h mg/L/48h (Desmodesmus subspicatus (green algae))

100-51-6 Benzyl alcohol

EC50 - Algae	700 mg/L/72h mg/L/48h (Pseudokirchneriella Subcatitata)
--------------	---

(Contd. on page 8)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 7)

EC50 - Crustacea	230 mg/L/48h mg/L/48h (Daphnia magna)
LC50 - Fish	460 mg/L/96h mg/L/48h (Pimephales promelas (fathead minnow))

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No information available.

13 SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 SECTION 14: Transport information

- **14.1 Land transport**
- **ADR/RID class:** Not regulated.
- **UN-Number:** Not applicable.
- **14.2 Maritime transport**
- **IMDG Class:** Not regulated.
- **UN Number:** Not applicable.
- **Marine pollutant:** No
- **14.3 Air transport**
- **ICAO/IATA Class:** Not regulated.
- **UN/ID Number:** Not applicable.

- **14.4 Environmental hazards:** Not applicable.

(Contd. on page 9)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 8)

- **14.5 Special precautions for user** Not applicable.
- **14.6 Transport/Additional information:** Not dangerous according to the above specifications.

15 SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation:

Authorisations: No information available.

Restrictions on use: No information available.

Regulatory information

CAS No.	EU (EINECS)	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Australia (AICS)	Korea (ECL)	China (IECSC)
65113-55-5	Listed	Listed	Not listed	NDSL	Not listed	Not listed	Not listed
100-51-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
122-99-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
24969-06-0	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
25054-06-2	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
102-71-6	Listed	Listed	Listed	DSL	Listed	Listed	Listed
90506-69-7	Listed	Not listed	Not listed	Not listed	Not listed	Not listed	Listed

- **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

16 SECTION 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.

· Relevant phrases:

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

- **Training hints:** Provide adequate information, instruction and training for operators.

(Contd. on page 10)

Safety Data Sheet (SDS)

According to Commission Regulation (EU) No 453/2010

Printing date 26.03.2012

Version number 1

Revision date 26.03.2012

Product name: 5 Star Ball Pen Black

(Contd. of page 9)

· **Date issuing SDS:** March 26, 2012

· **Sources:**

ESIS: European chemical Substances Information System.

GESTIS-database: Information system on hazardous substances of the German Social Accident Insurance.

ECHA's public database with information on registered substances.

Provided by company