Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

Ball pen ink Black

Issue date: 01/19/2015 Version 1.0 Revision date: 01/19/2015

1. Product and Company Identification

Material name

Ball pen ink Black

CAS #

See section 3

Product code -

Product use Not available.

Manufacturer/Supplier

Supplier(Manufacturer): USG046

Address: -

Contact person(E-mail):

Telephone:

Fax:

Emergency telephone Number:

Not classified

2. Hazards identification Acute toxicity- Oral

GHS classification skin corrosion/irritation

Physical hazards skin sensitisation

Health hazards serious eye damage/eye irritation Category 4

Category 2
Category1
Category1

specific target organ toxicity after single exposure Category 3

Environmental hazards hazardous to the aquatic environment- CHRONIC Category 1

GHS label elements

Hazard Pictograms



Signal word Danger

Hazard statement Harmful if swallowed

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye damage

May cause respiratory irritation

Very toxic to aquatic life with long lasting effects

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Material name: Ball pen ink Black
Version #:1.0 Revision date:01-19-2015.

Issue date:01-19-2015.

MSDS US

1 / 7

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Wash contaminated clothing before reuse.

Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal Dispose of contents/container in according with local regulation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Solvent black 46	65113-55-5	30%
Benzyl alcohol	100-51-6	25%
2-Phenoxy Ethanol	122-99-6	20%
Keton resin	25054-06-2	14%
Epoxy resin	24969-06-0	6%
Triethanolamine	102-71-6	4%
Phosphoric acid ester	90506-69-7	1%

4. First Aid Measures

First aid procedures

Response

Eye contact Immediately wash affected eyes for at least 15 minutes under running water with

eyelids held open, consult an eye specialist.

Skin contact Wash thoroughly with soap and water.

Inhalation If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek

medical attention. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be

administered by qualified personnel.

Ingestion Rinse mouth immediately and then drink plenty of water, seek medical attention. Do

not induce vomiting unless directed to do so by medical personnel.

Notes to physician Treat symptoms.

5. Fire Fighting Measure

Material name: Ball pen ink Black
Version #:1.0 Revision date:01-19-2015. Issue date:01-19-2015. 2 / 7

Flammable properties This product is non-flammable.

Extinguishing media

Suitable extinguishing media Water, dry extinguishing media, carbon dioxide, alcohol resistant foams.

Unsuitable extinguishing media Direct water stream.

Firefighting equipment/instructions In the event of fire, wear self-contained breathing apparatus.

Hazardous combustion productsNone Special hazards caused by the substance.

6. Accidental Release Measures

Personal precautions Ensure good ventilation/exhaustion at the workplace.

Environmental precautions Contain contaminated water/firefighting water. Do not discharge into drains/surface

waters/groundwater.

Methods for cleaning up For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with

regulations.

7. Handling and Storage

Handling Prevent contact with air/oxygen (formation of peroxide). General Handling: Do not

swallow. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Keep container closed. Use with adequate ventilation.

Storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold	Triethanolamine	Triethanolamine	5 mg/m3	Not Available	Not Available	TLV® Basis:
Limit Values (TLV)						Eye & skin
						irr; BEIA

EMERGENCY LIMITS

Ingredient	dient Material name		TEEL-2	TEEL-3
Benzyl alcohol	Benzyl alcohol	30 ppm	49 ppm	49 ppm
2-Phenoxy Ethanol	2-Phenoxy Ethanol Phenoxyethanol, 2-; (Phenyl cellosolve)		20 ppm	44 ppm
triethanolamine	triethanolamine Triethanolamine; (Trihydroxytriethylamine)		51 mg/m3	1100 mg/m3

Ingredient	Original IDLH	Revised IDLH
Solvent black 46	Not Available	Not Available
Benzyl alcohol	Not Available	Not Available
2-Phenoxy Ethanol	Not Available	Not Available
Keton resin	Not Available	Not Available
Epoxy resin	Not Available	Not Available
Triethanolamine	Not Available	Not Available
Phosphoric acid ester	Not Available	Not Available

Material name: Ball pen ink Black
Version #:1.0 Revision date:01-19-2015. Issue date:01-19-2015.

Personal protective equipment

Safety glasses with side shields. Chemical goggles. Eye / face protection

Wear chemical protective gloves, e.g. PVC. Skin protection

Wear appropriate protective mask. Respiratory protection

General hygiene Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. considerations

9. Physical & Chemical Properties

Appearance

Liquid Physical state Liquid **Form** Black Color

Odor Not available Odor threshold Not available Not available На

Vapor pressure 0.014 hPa(20 °C) (CAS#122-99-6)

Vapor density Not available

Boiling point 244.3 °C (CAS#122-99-6) Melting point/Freezing point 11.8 °C (CAS#122-99-6)

Solubility (water) 24.2 g/L(20.7 °C pH=5.5) (CAS#122-99-6)

Specific gravity Not available

Relative density 1.11(20 °C) (CAS#122-99-6)

Density Not available

126 °C (CAS#122-99-6) Flash point

Flammability limits in air, upper, %by volume Not available Flammability limits in air, lower, % by volume Not available

475 °C (CAS#122-99-6) **Auto-ignition temperature**

VOC Not available Percent volatile Not available

Other data

Viscosity 19 mPa s (dynamic)(40.5 °C) (CAS#122-99-6)

Partition coefficient(log Pow) 1.2 (23 °C) (CAS#122-99-6) **Decomposition temperature** > 350 °C(CAS#122-99-6) Surface tension 70.7 mN/m(CAS#122-99-6)

10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. Chemical stability

Conditions to avoid Incompatible materials.

Incompatible materials Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products Not available.

Possibility of hazardous reactions No dangerous reactions known.

11. Toxicological Information

Material name: Ball pen ink Black MSDS US Issue date:01-19-2015. Version #:1.0 Revision date:01-19-2015.

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

2-Phenoxy Ethanol (CAS#122-99-6)

LD50(Oral, Rat):1850 mg/kg bwLD50(Dermal, Rabbit):Not availableLC50(Inhalation, Rat):> 1000 mg/m³ air

Benzyl alcohol (CAS#100-51-6)

LD50(Oral, Rat): 1620 mg/kg bw **LD50(Dermal, Rabbit):** Not available

LC50(Inhalation, Rat): > 4178 mg/m³ air 4h

Solvent black46 (CAS#65113-55-5)

LD50(Oral, Rat):> 2000 mg/kg bwLD50(Dermal, Rabbit):> 2000 mg/kg bwLC50(Inhalation, Rat):Not available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity:

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological Information

Toxicity:

2-Phenoxy Ethanol (CAS#122-99-6)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LC50	344 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 500 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 500 mg/L	72h	Algae	OECD 201	N/A	N/A

Benzyl alcohol (CAS#100-51-6)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LC50	460 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	230 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	770 mg/L	72h	Algae	OECD 201	N/A	N/A

Solvent black46 (CAS#65113-55-5)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	0.011 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	0.0034 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:

Not available.

Material name: Ball pen ink Black

Bioaccumulative potential: Not available. Mobility in soil: Not available. Results of PBT&vPvB assessment: Not available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

Dispose of contents/container in accordance with local/regional/national/international **Disposal instructions**

regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)

Hazard class Packing group Ш **Environmental hazards** Yes

IATA

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)

Transport hazard class(es) 9 Ш **Packing group**

IMDG

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)

9 Transport hazard class(es) \coprod **Packing group Environmental hazards** Yes

15. Regulatory Information

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

Solvent black 46 (65113-55-5) is found	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
on the following regulatory lists	
Benzyl alcohol(100-51-6) is found on the	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
following regulatory lists	
2-Phenoxy Ethanol(122-99-6) is found on	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
the following regulatory lists	
Keton resin (25054-06-2) is found on the	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
following regulatory lists	
Epoxy resin(24969-06-0) is found on the	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
following regulatory lists	
Triethanolamine (102-71-6) is found on	"US ACGIH Threshold Limit Values (TLV)",

Material name: Ball pen ink Black MSDS US 6/7

the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Phosphoric acid ester(90506-69-7) is	"Not Applicable"
found on the following regulatory lists	

16. Other Information

HMIS®ratings Health: 2

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1

Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience

currentlyavailable.

Issue date 01-19-2015