

SAFETY DATA SHEET

EBONY RETRACTABLE BALLPOINT PEN 0.7MM BLACK BOX 12

Infosafe No.: LQ93G
ISSUED Date : 05/10/2018
ISSUED by: WIS Solutions Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

EBONY RETRACTABLE BALLPOINT PEN 0.7MM BLACK BOX 12

Company Name

WIS Solutions Pty Ltd

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Recommended use of the chemical and restrictions on use

Ballpoint pen. Do not use for products which come into direct contact with skin or direct contact with food stuffs.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

9.2B Substance that is ecotoxic in the soil environment

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

6.1D (Oral) - Substance that is acutely toxic

6.1E (Dermal) - Substance that is acutely toxic

6.3A Substance that is irritating to the skin

6.5B Substance that is a contact sensitiser

6.4A Substance that is irritating to the eyes

6.1D (Inhalation – vapours, dusts or mists) - Substance that is acutely toxic

6.8B Substance that is suspected to be a human reproductive or developmental toxicant

9.1D Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

9.3C Substance that is harmful to terrestrial vertebrates

Signal Word (s)

WARNING

Hazard Statement (s)

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H401 Toxic to aquatic life.

H422 Toxic to the soil environment.

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H433 Harmful to terrestrial vertebrates.

Pictogram (s)

Environment, Exclamation mark, Health hazard



Precautionary statement – Prevention

- P102 Keep out of reach of children.
- P103 Read label before use.
- P104 Read Safety Data Sheet before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

- P101 If medical advice is needed, have product container or label at hand.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P391 Collect spillage.

Precautionary statement – Storage

- P405 Store locked up.

Precautionary statement – Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

Other Information

This Safety Data Sheet refers to the ink as retained in the pen.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 3-[[4-(phenylamino)phenyl]azo]benzenesulfonate (1:1)	65113-55-5	20-30 %
Benzyl Alcohol	100-51-6	20-30 %
2-Phenoxyethanol	122-99-6	10-20 %
Triethanolamine	102-71-6	1-10 %
Phosphoric acid, mono- and bis(2-ethylhexyl) esters	90506-69-7	0-1 %
Ingredients determined not to be hazardous		Balance

Preparation Description

Ingredients refers to the ink as retained in the pen.

4. FIRST-AID MEASURES

Inhalation

Not considered a potential route of exposure.

However, if inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Unlikely due to form of product.

However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once (0800 764 766).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water mist or water spray.

Unsuitable Extinguishing Media

Not available

Hazards from Combustion Products

Combustion of large amounts of ballpoint pens: Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon dioxide(CO₂), aldehydesnitrogen oxides (NO_x), sulfur oxides (SO_x), other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

Long standing in contact with air and light may result in the formation of potentially explosive peroxides.

Specific Hazards Arising From The Chemical

This product will burn if exposed to fire. When burning large amounts of pens, hazardous fumes can be set free.

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Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Other Information

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

In normal conditions of storage, transport and use, the liquid will not leak from the pen. Observe normal precautions when handling chemicals. Do not use the pen on your body. Avoid that the tip of the pen comes into contact with the eyes and the skin. Always apply the protective cap to the pen or retract the tip, when it is not in use. Unproper handling, such as licking the tip of the pen, inhaling the ink or breaking and opening the pen, so as to set free the ink, is to be avoided. Keep away from foodstuffs, drinks and tobacco. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Avoid exposure to the ink. Do not handle until all safety precautions have been read and understood. It is recommended that pregnant or breastfeeding women should not handle this product unless adequate exposure protection can be assured at all times. Female personnel planning pregnancy should be made aware of the potential risks.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Ensure that storage conditions comply with applicable local and national regulations. Keep pens capped cap to the pen or retract the tip when not in use. Protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area.

For the ink:

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 (2017)- The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Disulfo copper phthalocyanine amine salt and Copper Phthalocyaning Blue
TWA: 1 mg/m³ (Copper, dust & mists as Cu)

Triethanolamine
TWA: 5 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week

Source: Workplace Exposure Standards and Biological Exposure Indices.

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Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Industrial application (for the ink): This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Refer to AS 1940 (2017) - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1(2009) Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

Respiratory Protection

Not generally required.

Industrial application (for the ink): If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715 (2009), Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 (2012), Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Not generally required. However, avoid contact with eyes.

Industrial application (for the ink): - Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 2 & 6 (2012) - Eye Protectors for Industrial Applications.

Hand Protection

Not generally required.

Industrial application (for the ink): Wear gloves of impervious material (PVC). Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 (2016): Occupational protective gloves - Selection, use and maintenance.

Body Protection

Industrial application (for the ink): Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Article

Appearance

Pen which retains a very small quantity of black liquid

Colour

Black

Odour

Not available

Decomposition Temperature

Not available

Melting Point

Not available

Boiling Point

Not available

Solubility in Water

Not available

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Specific Gravity

Not available

pH

Not applicable

Vapour Pressure

Not available

Vapour Density (Air=1)

Not available

Evaporation Rate

Not available

Odour Threshold

Not available

Viscosity

Not available

Volatile Component

Not available

Partition Coefficient: n-octanol/water

Not available

Flash Point

Not available

Flammability

Not flammable

Auto-Ignition Temperature

Not available

Flammable Limits - Lower

Not available

Flammable Limits - Upper

Not available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Reactivity and Stability

Reacts with incompatible materials.

Conditions to Avoid

Heat, open flames and other sources of ignition.

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Combustion of large amounts of ballpoint pens: Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon dioxide(CO₂), aldehydesnitrogen oxides (NO_x), sulfur oxides (SO_x), other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.

Long standing in contact with air and light may result in the formation of potentially explosive peroxides.

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material. The available acute toxicity data for the ingredients are given below.

Acute Toxicity - Oral

2-Phenoxyethanol

LD50(Oral, Rat): 1,386 mg/kg

Benzyl Alcohol

LD50(Oral, Rat): 1,560 mg/kg

Triethanolamine

LD50(Oral, Rat): 5,559.6 mg/kg (female)

Acute Toxicity - Inhalation

Benzyl Alcohol

LC50(Oral, Rat): >4.178 mg/L/4h

Acute Toxicity - Dermal

2-Phenoxyethanol

LD50(Dermal, Rat): 14,391 mg/kg

Benzyl Alcohol

LD50(Dermal, Rat): 100,0000 ppm/90M

Triethanolamine

LD50(Dermal, Rat): >18,080 mg/kg

Ingestion

Ingestion unlikely due to form of product.

However, if ingested this product is harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

No adverse effects expected.

However, the ink: Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system.

Skin

Unlikely due to form of product.

The ink: May be harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction

Irritation data:

2-Phenoxyethanol

Skin (rabbit): 500 mg/24h - mild

Benzyl Alcohol

Skin (man): 16 mg/48h-mild

Skin (rabbit):10 mg/24h open-mild

Triethanolamine

Skin (human): 15 mg/3d (int)-mild

Skin (rabbit): 4 h occluded

Skin (rabbit): 560 mg/24 hr- mild
with significant discharge;

Eye

Unlikely due to form of product.

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The ink: Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Irritation data:

2-Phenoxyethanol

Eye (rabbit): 250 ug/24h - SEVERE

Eye (rabbit): 6 mg - moderate

Triethanolamine

Eye (rabbit): 0.1 ml -

Eye (rabbit): 10 mg - mild

minor conjunctival irritation

minor iritis,

no corneal injury

no irritation

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Unlikely due to form of product.

The ink: May cause an allergic skin reaction.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Triethanolamine is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity

Unlikely due to form of product.

The ink: Suspected of damaging fertility or the unborn child. Classified as a suspected human reproductive or developmental toxicant.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

Other Information

Experiences made in practice:

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use. Other dangerous properties can not be excluded.

12. ECOLOGICAL INFORMATION

Ecotoxicity

In normal conditions of storage, transport and use, the ink will not leak from the pen.

The ink: Toxic to aquatic life. It is Toxic to the soil environment and harmful to terrestrial vertebrates.

Persistence and degradability

2-Phenoxyethanol

Persistence: Water/Soil

Low

Persistence: Air

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Low

Benzyl alcohol

Persistence: Water/Soil

Low

Persistence: Air

Low

Triethanolamine (CAS 102-71-6)

Persistence: Water/Soil

Low

Persistence: Air

Low

Mobility

2-Phenoxyethanol

Mobility: LOW (KOC = 12.12)

Benzyl alcohol

Mobility: LOW (KOC = 15.66)

Triethanolamine

Mobility: LOW (KOC = 10)

Bioaccumulative Potential

2-Phenoxyethanol

Bioaccumulation: LOW (LogKOW = 1.16)

Benzyl alcohol

Bioaccumulation: LOW (LogKOW = 1.1)

Triethanolamine

Bioaccumulation: LOW (BCF = 4)

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish

2-Phenoxyethanol

LC50 96h Fish 106.514mg/L

NOEC 24h Fish 5mg/L

Benzyl Alcohol

LC50 96h Fish 10mg/L

NOEC 336h Fish 5.1mg/L

Triethanolamine

LC50 96h Fish 0.0011807mg/L

Acute Toxicity - Daphnia

2-Phenoxyethanol

EC50 384h Crustacea 25.027mg/L

EC50 48h Crustacea 460mg/L

Benzyl Alcohol

EC50 48h Crustacea 230mg/L

Triethanolamine

EC50 48h Crustacea 609.88mg/L

NOEC 504 Crustacea 16mg/L

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Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 3-[[4-(phenylamino)phenyl]azo]benzenesulfonate (1:1)
EC50 48h Crustacea ca.0.011mg/L

Acute Toxicity - Algae

2-Phenoxyethanol
EC50 96h Algae or other aquatic plants 429.444mg/L

Benzyl Alcohol
EC03 168h Algae or other aquatic plants =16mg/L
EC50 72h Algae or other aquatic plants 500mg/L

Triethanolamine
EC10 96h Algae or other aquatic plants 7.1mg/L
EC50 72h Algae or other aquatic plants >107- <260mg/L

Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 3-[[4-(phenylamino)phenyl]azo]benzenesulfonate (1:1)
EC50 72h Algae or other aquatic plants 0.0034mg/L
EC50 72h Algae or other aquatic plants ca.0.0053mg/L
NOEC 72h Algae or other aquatic plants 0.0014mg/L

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. In this specific case the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

IMDG Marine pollutant

No

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Transport in Bulk

Not available

Special Precautions for User

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

This Group Standard refers to the ink as retained in the pen.

Group Standard: Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006

HSNO Approval Number

This HSNO Approval Number refers to the ink as retained in the pen.

HSR002670

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Created: October 2018

References

Workplace Exposure Standards and Biological Exposure Indices.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

User Codes

User Title Label	User Codes
Wis Numbers	00060422
Wis Numbers	00060473
Wis Numbers	00061102

END OF SDS

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