

Technical Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: Ballpoint Pens (Black, Blue, Red, Green)

Product code (TDS No): Ballpoint_Pens_EU-Ver2.00

Product class:

The products are Ballpoint Pens with Inks, Consumer products/Articles, not applicable to any SDSs nor CLP/GHS as “There are no provisions in REACH under which an SDS ever has to be supplied to a member of the general public (a “consumer”)” (ECHA Guidance on the compilation of safety data sheets, Note 22, Page 24) https://echa.europa.eu/documents/10162/23036412/sds_en.pdf/01c29e23-2cbe-49c0-aca7-72f22e101e20

This TDS should be referred only for workplace assessment in manufacturing processes of Ballpoint Pens. There is no hazardous to be described in TDSs to use of the consumer products.

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

Relevant identified uses of the product: Ballpoint Pens

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: SUHAN CORPORATION

Address: 17, Cheongyong 1-gil, Hoengseong-eup, Hoengseong-gun, Gangwon-do, Korea

Telephone number: +82-33-342-0601

e-mail address: hjkoh@suhancorp.co.kr

1.4 Emergency telephone number (24h): +82-33-342-0601

2. Hazards identification

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

HEALTH HAZARDS

Acute toxicity Oral: Category 4

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Carcinogenicity: Category 2

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment – acute hazard: Category 1

Hazardous to the aquatic environment – long-term hazard: Category 1

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

2.2 Label elements



Signal word: Danger

HAZARD STATEMENT

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H351 Suspected of causing cancer

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

- P260 Do not breathe gas/mist/vapors/spray.
- P264 Wash contaminated parts thoroughly after handling.
- P280 Wear protective gloves.
- P280 Wear protective gloves, protective clothing or face protection.
- P280 Wear eye protection/face protection.
- P280 Use personal protective equipment as required.
- P270 Do not eat, drink or smoke when using this product.

Response

- P391 Collect spillage.
- P321 Specific treatment is required.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- 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.
- P330 Rinse mouth.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of contents/container in accordance with local/national regulation.

The product does not contain any ingredient designated as PBT and/or vPvB.

3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture

Ingredient name HAZCODE_EU	CAS No. ECNO	Content(%)
2-Phenoxyethanol Acute Tox. 4, H302; Eye Irrit. 2, H319	122-99-6 204-589-7	< 60
2-methylpentane-2,4-diol Eye Irrit. 2, H319; Skin Irrit. 2, H315	107-41-5 203-489-0	< 30
Amines, coco alkyl Acute Tox. 4, H302; Asp. Tox. 1, H304; STOT SE 3, H335; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	61788-46-3 262-977-1	< 10
C.I. Basic Violet 3 (*1) Carc. 2, H351; Acute Tox. 4, H302; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	548-62-9 208-953-6	< 15

Note : The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in EU CLP (Classification, labelling and packaging of substances and mixtures/table3-1 ECNO6182012).

Components contributing to the hazard

- Not contain PBT/vPvB, REACH SVHC listed ingredient
- Not contain CMR, REACH SVHC listed ingredient
- Not contain Health, REACH SVHC listed ingredient
- Not contain Enviro, REACH SVHC listed ingredient

(*1) C.I. Basic Violet 3 contains Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2) less than 0.1%, therefore it's not applicable to CMR, REACH SVHC.

4. First-aid measures

4.1 Descriptions of first-aid measures

IF ON SKIN (or hair) (Ink)

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES (Ink)

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED (Ink)

Rinse mouth. Do NOT induce vomiting.

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

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

5.3 Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

The products are ballpoint pens, and are not expected to present a spill or release hazard.

No specific measures necessary.

7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel) (Ink)

Do not breathe gas/mist/vapors/spray.

Safety treatments (Ink)

Avoid contact with eyes.

7.2 Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(2-methylpentane-2,4-diol)

ACGIH(2016) TWA: 25ppm(V)

STEL: 50ppm(V),10mg/m³(I,H)(Eye & URT irr)

8.2 Exposure controls

Appropriate engineering controls

Washing facilities should be available.

Safety and Health measures

Do not get in eyes, on skin, or on clothing.

Wash ... thoroughly after handling.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical properties

Appearance: Viscous liquid

Color: Black, Blue, Red or Green for each product

Flash point: N.A.

10. Stability and Reactivity

10.2 Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

11.1 Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

Carcinogenicity

(C.I. Basic Violet 3)

EU-Category 2; Substances suspected human carcinogens

No Teratogenic effects data available

No reproductive toxicity data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure

STOT

STOT-repeated exposure

[cat.2]

[EU CLP name of STOT]

(Amines, coco alkyl) gastro-intestinal tract, liver, immune system

No Aspiration hazard data available

12. Ecological Information

12.1 Ecotoxicity

Aquatic toxicity

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Water solubility

(2-methylpentane-2,4-diol)

100 g/100 ml (PHYSPROP Database, 2005)

(2-Phenoxyethanol)

2.67 g/100 ml (Merck 14th, 2006)

12.2 Persistence and degradability

(Amines, coco alkyl)

Not degrade rapidly (BOD_Degradation : 56% (EU-RAR, 2008))

12.3 Bioaccumulative potential

(2-methylpentane-2,4-diol)

log Pow=0.58 (ICSC, 2003)

(2-Phenoxyethanol)

log Pow=1.2 (ICSC, 2003)

No Mobility in soil data available

No PBT and/or vPvB related data available

Ozone depleting chemical data not available

13. Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

14.5 Environmental hazards

Sea pollutant_Acute hazard

Amines, coco alkyl

Sea pollutant_Long-term hazard

Amines, coco alkyl , C.I. Basic Violet 3

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Z

2-Phenoxyethanol; 2-methylpentane-2,4-diol

15. Regulatory Information

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

Data N.A.

Other regulatory information

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

16. Other information

GHS classification and labelling

Acute Tox. 4: H302 Harmful if swallowed

Skin Corr. 1: H314 Causes severe skin burns and eye damage

Eye Dam. 1: H318 Causes serious eye damage

Carc. 2: H351 Suspected of causing cancer

Aquatic Acute 1: H400 Very toxic to aquatic life

Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Hazard Communication Standard – 2012

GESTIS-Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we

assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The GHS classification data given here is based on current EU official data (EU CLP published in 01.01.2017).