

Technical Data Sheet

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

1.1 Product identifier:

Product name: Better Gel Ink Ball Pens

(Black, Blue, Red, Green, Violet, Lavender, Turquoise, Lime, Blueblack, Sky Blue,
Brown, Orange, Pink, Yellow, Light Orange, Light Violet)

Product code(SDS NO): Better_Gel_Ink_EU-Ver2.00

Product class:

The products are Gel Ink Ball Pens with Gel Inks (finished products/articles.) There is no hazard.

This TDS describes ingredients of the Gel Inks and their hazard handled as bulks in manufacturing processes.

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

Relevant identified uses of the product: Gel Ink Ball Pens (finished products/articles.) There is no hazard.

1.3 Details of the supplier of the technical 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 for bulks of Gel Inks handled in manufacturing processes

GHS classification and label elements of the product

2.1 Classification of the substance or mixture

Not applicable to GHS classification

2.2 Label elements

No hazard pictogram

No Signal word

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

3. Composition/information on ingredients

Mixture/Substance selection:

3.2 Mixture as bulks of Gel Inks handled in manufacturing processes

Ingredient name HAZCODE_EU	CAS No. ECNO	Content(%)
N-Methyldiethanolamine Eye Irrit. 2, H319	105-59-9 203-312-7	< 3
1,2-Benzisothiazolin-3-one Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400	2634-33-5 220-120-9	< 0.05
Sodium hydroxide Skin Corr. 1A, H314; (Eye Irrit. 2, H319)	1310-73-2 215-185-5	< 0.02

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

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

4. First-aid measures for bulks of Gel Inks handled in manufacturing processes

4.1 Descriptions of first-aid measures

IF ON SKIN(or hair)(Ink)

Gently 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.

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

5. Fire-fighting measures for bulks of Gel Inks handled in manufacturing processes

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 for bulks of Gel Inks handled in manufacturing processes

6.1 Personnel precautions, protective equipment and emergency procedures

The products are Gel Ink Ball Pens, and are not expected to present a spill or release hazard.

No specific measures necessary.

7. Handling and storage for bulks of Gel Inks handled in manufacturing processes

7.1 Precautions for safe handling

Safety treatments

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 for bulks of Gel Inks handled in manufacturing processes

8.1 Control parameters

Adopted value

(Sodium hydroxide)

ACGIH(1992) STEL: C 2mg/m³ (URT, eye & skin 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.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties for bulks of Gel Inks handled in manufacturing processes

9.1 Information on basic physical and chemical properties

Physical properties

Appearance: Viscous liquid

Color: Each color for each product

Odor: None

Flash point: Not applicable

Solubility

Solubility in water: Miscible

10. Stability and Reactivity for bulks of Gel Inks handled in manufacturing processes

10.2 Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information for bulks of Gel Inks handled in manufacturing processes

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

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

12. Ecological Information for bulks of Gel Inks handled in manufacturing processes

12.1 Toxicity

No Aquatic toxicity data available

Water solubility

(N-Methyldiethanolamine)

100 g/100 ml (25 C) (ICSC, 2005)

(Sodium hydroxide)

109 g/100 ml (20 C) (ICSC, 2010)

12.2 Persistence and degradability

(N-Methyldiethanolamine)

BOD_Degradation : 22, 0, 0% (Registered chemicals data check & review, Japan 1977)

(1,2-Benzisothiazolin-3-one)

BOD_Degradation : 0% (Registered chemicals data check & review, Japan 2003)

12.3 Bioaccumulative potential

(N-Methyldiethanolamine)

log Pow=-1.08 (ICSC, 2005)

No Mobility in soil data available

No PBT and/or vPvB related data available

Ozone depleting chemical data not available

13. Disposal considerations for bulks of Gel Inks handled in manufacturing processes**13.1 Waste treatment methods**

Dispose of contents/container in accordance with local/national regulation.
Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

14. Transport Information for bulks of Gel Inks handled in manufacturing processes**UN No, UN CLASS**

Not applicable to UN NO.

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

Noxious Liquid ; Cat. Y

Sodium hydroxide; N-Methyldiethanolamine

15. Regulatory Information for bulks of Gel Inks handled in manufacturing processes**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Data N.A.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information for bulks of Gel Inks handled in manufacturing processes

The product is not applicable to GHS classifications.

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)
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2017 TLVs and BEIs. (ACGIH)
<http://monographs.iarc.fr/ENG/Classification/index.php>
Supplier's data/information
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).