

SAFETY DATA SHEET

First Issue: Mar. 8, 2018

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

- 1.1 Product identifiers
Product name: FUDENOSUKE Hard Tip, Soft Tip
Product code: GCD-111,112
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
General use: Writing on paper
- 1.3 Details of the supplier of the safety data sheet
Manufacturer: Tombow Pencil Co., Ltd.
Address: 6-10-12, Toshima, Kita-ku, Tokyo 114-8583, Japan
TEL: +81-3-3912-1196
FAX: +81-3-3912-1371
- 1.4 Emergency telephone number
Tombow Pencil Co., Ltd.
TEL: +81-3-3912-1196 (9am – 5:30pm, Japan Time, M-F)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
GHS Classification in accordance to GHS
Suspected of causing cancer (Category 2)

- 2.2 Label elements
Hazard pictograms:



- Signal words: Warning
- Hazard statement: H351 Suspected of causing cancer

- Precautionary statements:
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| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understand. |
| P281 | Use personal protective equipment as required. |
| P308+P313 | If exposed or concerned, get medical advice/attention. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation. |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

This product is composed of a combination of three components, body (article), pen tip (article), and ink (mixture).

Body (Article): PP

Pen Tip (Article):PETP/POM

Ink (Mixture): The ink is a mixture and the composition is as follows.

Chemical Name	Chemical formula	CAS number	Concentration (wt%)
Water	H ₂ O	7732-18-5	Trade secret
Glycerol	C ₃ H ₈ O ₃	56-81-5	Trade secret
Carbon Black	C	1333-86-4	Trade secret
Others	-	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	This product is a brush pen, and use is just writing for paper. Avoid any other uses.
Following inhalation:	Remove victim to fresh air. Get medical advice/attention, if you feel unwell.
Following skin contact:	Wash with soap and water.
Following eye contact:	Rinse cautiously with water for several minutes. Get medical advice/attention, if you feel unwell.
Following ingestion:	Rinse mouth. Get medical advice/attention, if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical powder, CO₂, foam, sands, water spray

Unsuitable extinguishing media: No data available

5.2 Special hazards arising from the substance or mixture: No data available

5.3 Advice for firefighters: No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.1.1 For non-emergency personnel: Avoid contact with skin and eyes. Avoid inhalation. Ensure adequate ventilation.
- 6.1.2 For emergency responders: Protective equipments are gloves and goggles.
- 6.2 Environmental precautions: Avoid discharge into water courses or onto the ground.
- 6.3 Methods and material for containment and cleaning up
- 6.3.1 For containment: Wipe off with waste cloths.
- 6.3.2 For cleaning up: Wipe off with waste cloths.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- Protective measures: Put the cap. Please use only for writing. Ensure adequate ventilation. Avoid contact with skin and eyes.
- Measures to prevent fire: Keep away from heat, sparks and open flame.
- Measures to prevent aerosol and dust generation: No data available
- Measures to protect the environment: Avoid discharge into water courses or onto the ground.
- Advice on general occupational hygiene: Avoid contact with skin and eyes.
- 7.2 Conditions for safe storage, including any incompatibilities
- Technical measures and storage conditions: Put the cap. Avoid high temperature. Keep away from heat, sparks and open flame. Keep it where children can't get at it.
- Packaging materials: This product is composed of a combination of body (article) and ink (mixture), and the body contains the mixture.
- Requirements for storage rooms and vessels: Avoid high temperature. Keep away from heat, sparks and open flame.
- 7.3 Specific end use(s)
- Recommendations: Writing on paper.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
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| Occupational exposure limit: | 56-81-5: | ACGIH TLV | 10 mg/m ³ TWA |
| | 1333-86-4: | ACGIH TLV | 3.5 mg/m ³ TWA |

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| 8.2 | Exposure controls | |
| 8.2.1 | Appropriate engineering controls: | Usually, it's unnecessary. |
| 8.2.2 | Personal protective equipment: | Usually, it's unnecessary. |
| 8.2.3 | Environmental exposure controls: | No data available |

SECTION 9: Physical and chemical properties

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| 9.1 | Information on basic physical and chemical properties | |
| | a) Appearance | |
| | Physical state: | Liquid (Ink) |
| | Color: | Black (Ink) |
| | b) Odor: | Little (Ink) |
| | c) Odor threshold: | No data available |
| | d) pH: | 8-10 (Ink) |
| | e) Melting point: | No data available |
| | f) Initial boiling point and boiling range: | No data available |
| | g) Flash point: | No data available |
| | h) Evaporation rate: | No data available |
| | i) Flammability (solid): | No data available |
| | j) Upper/lower flammability or explosive limits: | No data available |
| | k) Vapor pressure: | No data available |
| | l) Vapor density: | No data available |
| | m) Relative density: | 1.0-1.2 (Ink) |
| | n) Solubility: | Can be diluted with water. (Ink) |
| | o) Partition coefficient: n-octanol/water: | No data available |
| | p) Auto-ignition temperature: | No data available |
| | q) Decomposition temperature: | No data available |
| | r) Viscosity: | No data available |
| | s) Explosive properties: | No data available |
| | t) Oxidising properties: | No data available |

SECTION 10: Stability and Reactivity

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| 10.1 | Reactivity: | Stable usually. |
| 10.2 | Chemical stability: | Stable usually. |
| 10.3 | Possibility of hazardous reactions: | No data available |
| 10.4 | Conditions to avoid: | No data available |
| 10.5 | Incompatible materials: | No data available |
| 10.6 | Hazardous decomposition products: | No data available |

SECTION 11: Toxicological information

Acute toxicity:	56-81-5:	LD50 Oral - Rat – 12,600 mg/Kg [1] LD50 Dermal - Rabbit - > 10,000 mg/Kg [1]
	1333-86-4:	LD50 Oral - rat - male and female - > 8,000 mg/Kg [1] LD50 Dermal - rabbit - > 3,000 mg/Kg [1]
Skin corrosion/Irritation:	56-81-5:	Mild skin irritation - 24 h (Rabbit) [1]
	1333-86-4:	No skin irritation - 24 h (Rabbit) [1]
Serious eye damage/eye irritation:	56-81-5:	Mild eye irritation - 24 h (Rabbit) [1]
	1333-86-4:	No eye irritation (Rabbit) [1]
Respiratory or skin sensitization:	1333-86-4:	Did not cause sensitization on laboratory animals (Guinea pig) [1]
Germ cell mutagenicity:	1333-86-4:	Ames test: Negative [1]
Carcinogenicity:	Mixture (Calculated by GHS&HCS): Category 2	
IARC:	Carbon Black (1333-86-4): In 1995 IARC concluded, “There is inadequate evidence in humans for the carcinogenicity of carbon black.” Based on rat inhalation studies IARC concluded that there is, “sufficient evidence in experimental animals for the carcinogenicity of carbon black,” IARC’s overall evaluation was that, “Carbon black is possibly carcinogenic to humans (Group 2B)”. This conclusion was based on IARC’s guidelines, which require such a classification if one species exhibits carcinogenicity in two or more studies. IARC performed another review in 2006, and again classified carbon black as possibly carcinogenic to humans (Group 2B). In its 1987 review IARC concluded, “There is sufficient evidence in experimental animals for the carcinogenicity of carbon black extracts.” Carbon black extracts are classified as, possibly carcinogenic to humans (Group 2B).	
NTP:	Carbon black (1333-86-4) is not designated as a carcinogen by the U.S. National Toxicology Program (NTP).	
Reproductive toxicity:	No data available	
Specific target organ toxicity - single exposure:	No data available	
Specific target organ toxicity - repeated exposure:	No data available	
Aspiration hazard:	No data available	

SECTION 12: Ecological information

- 12.1 Toxicity:
1333-86-4: EC50 > 5,600 mg/L [8] 48-hour acute toxicity study in Daphnia magna [1]
- 12.2 Persistence and degradability:
1333-86-4: Carbon black is substantially elemental carbon, inorganic and cannot be further biodegraded by microorganisms. It is inert and contains no functional or water-soluble groups. It cannot be further degraded by hydrolysis, light or by photodegradation in air or in surface water. [1]
- 12.3 Bioaccumulative potential:

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1333-86-4: Potential bioaccumulation is not expected because of the physicochemical properties of the substance. [1]

12.4 Mobility in soil:

1333-86-4: Not soluble in water. Not expected to migrate. [1]

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport Information

This product is not classified as a hazardous material by United Nations Recommendations on the Transport of Dangerous Goods.

14.1	UN number:	Not Classified
14.2	UN proper shipping name:	Not Classified
14.3	Transport hazard class:	Not Classified
14.4	Packing group:	Not Classified
14.5	Environmental hazards:	Not Classified
14.6	Special precautions for user:	No data available

SECTION 15: Regulatory information

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

Observe local/regional/national/international regulation.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Reference: [1] SDS of Sigma-Aldrich

The above information is as of the date of issue, and is based on our present knowledge. However, the information shall not constitute any guarantees for any specific product features, and shall not establish any legally valid contractual relationships.