

# **SAFETY DATA SHEET**

First Issue: Dec.05, 2016 Revised Date: Jan.10, 2018

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

1.1 Product identifiers

Product name: AB-T DUAL BRUSH PEN

Product code: AB-T

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

General use: Marking pen for 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

TEL (Japan): +81-3-3912-1196 (9am – 5:30pm, Japan Time, M-F)

### **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to GHS.

All colours:

Specific target organ toxicity - repeated exposure Category 2 (111-46-6)

- 2.1.2 Additional information: No
- 2.2 Label elements

Labelling according to GHS.

Hazard pictograms:



All colours

Signal words: All colours: Warning

Hazard statement:

All colours:

H373 Causes damage to organs through prolonged or repeated exposure

Precautionary statements:

All colours:



P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P314 Causes severe skin burns and eye damage.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulation.

Supplemental Hazard information (EU): Not applicable.

2.3 Other hazards: No data available

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

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

Body (Article): PP

Brush (Article): Nylon

Pen Tip (Article): PE

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

Chemical Name	Chemical formula	CAS number	Concentration (wt%)
Water	$H_2O$	7732-18-5	Trade secret
Diethylene glycol	$C_4H_{10}O_3$	111-46-6	Trade secret
Others	-	-	-

# **SECTION 4: First aid measures**

4.1 Description of first aid measures

General information: This product is marking pen 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.

Self-protective of the first aider: No data available

- 4.2 Most important symptoms and effects, both acute and delayed: No data available
- 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, CO<sub>2</sub>, 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. Ensure adequate ventilation.

6.1.2 For emergency responders: No data available

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.

6.3.3 Other information: No data available

6.4 Reference to other sections: No data available

### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Protective measures: 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.

Packaging materials: This product is composed of a combination of four

components, body (article), brush (article), pen tip (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: Marking pen for paper

# **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

> Occupational exposure limit: No data available

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Usually, it is unnecessary.

8.2.2 Personal protective equipment: No data available

8.2.3 Environmental exposure controls: No data available

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

a) Appearance

Physical state: Liquid

Colour: Various colours

b) Odour: Little

No data available c) Odour threshold: No data available d) pH: about -5 °C e) Melting point:

f) Initial boiling point and boiling range: (in case of water) about 100 °C

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) Vapour pressure: No data available 1) Vapour density: No data available m) Relative density: No data available

n) Solubility: Can be diluted with water.

o) Partition coefficient: n-octanol/water: No data available No data available p) Auto-ignition temperature: q) Decomposition temperature: No data available r) Viscosity: No data available s) Explosive properties: No data available t) Oxidising properties: No data available

9.2 Other information: No data available

### **SECTION 10: Stability and Reactivity**

10.1 Reactivity: Stable usually.

10.2 Chemical stability: Stable usually.



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10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Heat, spark, and open flame

10.5 Incompatible materials: No data available

10.6 Hazardous decomposition products: No data available

### **SECTION 11: Toxicological information**

Acute toxicity: 111-46-6: LD50 Oral - rat - 12.565 mg/Kg [1]

LD50 Oral - Human - 1.000 mg/Kg Category 4 [1]

LD50 Dermal - rabbit - 11.890 mg/Kg [1]

Mixture (Calculated by GHS&HCS): Not categorized

Skin corrosion/Irritation: 111-46-6: No skin irritation (Rabbit) [1]

Mixture (Calculated by GHS&HCS): Not categorized

Serious eye damage/eye irritation: Mixture (Calculated by GHS&HCS): Not categorized

Respiratory or skin sensitisation: 111-46-6:Did not cause sensitisation on laboratory animals (Guinea pig) [1]

Mixture (Calculated by GHS&HCS): Not categorized

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: 111-46-6: Category 2 (Kidney) [1]

Mixture (Calculated by GHS): Category 2

Aspiration hazard: No data available

#### **SECTION 12: Ecological information**

12.1 Toxicity: 111-46-6: LC50 - Pimephales promelas (fathead minnow) - 75.200 mg/L - 96 h [1]

LC50 - Carassius auratus (goldfish) - 5.000 mg/L - 24 h [1] EC50 - Daphnia magna (Water flea) - > 10.000 mg/L - 24 h [1]

Mixture (Calculated by GHS&HCS): Category3

12.2 Persistence and degradability:

111-46-6: anaerobic - Exposure time 28 d

Result: 90 - 100 % - Readily biodegradable. [1]

12.3 Bioaccumulative potential:

111-46-6: Leuciscus idus melanotus - 3 d - 0,05 mg/l [1]

Bioconcentration factor (BCF): 100 [1]

12.4 Mobility in soil: No data available



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

13.1.1 Product / Packaging disposal:

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

13.1.2 Waste treatment-relevant information: No data available

13.1.3 Sewage disposal-relevant information:

No data available

13.1.4 Other disposal recommendations:

No data available

### **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**

References: [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.