

# **SAFETY DATA SHEET**

First Issue: Oct. 11, 2018

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

1.1 Product identifiers

Product name: TWIN TONE

Product code (Color No.): WS-PK03, 04, 06, 07, 13, 15, 17, 19, 21, 22, 25, 28, 33, 41, 42, 45, 48, 49

50, 58, 60, 61, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86

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

Specific target organ toxicity - repeated exposure Category 2

- 2.1.2 Additional information: No
- 2.2 Label elements

Labelling according to GHS

Hazard pictograms:



Signal words: Warning

Hazard statement:

H373 Causes damage to organs through prolonged or repeated exposure

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P314 Causes severe skin burns and eye damage.



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

regulation.

2.3 Other hazards: No data available

### **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): PE / POM

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

Chemical Name	Chemical formula	CAS number	Concentration (wt%)
Water	H <sub>2</sub> O	7732-18-5	Trade secret
Diethylene glycol	$C_4H_{10}O_3$	111-46-6	Trade secret
Other	-	-	-

#### **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 three

components, body (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

Color: Various colors

b) Odor: Little

c) Odor threshold: No data available d) pH: No data available 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: No data available j) Upper/lower flammability or explosive limits: No data available k) Vapor pressure: No data available No data available 1) Vapor density:

m) Relative density: about 1

n) Solubility: Can be diluted with water.

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

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): Not categorized

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

Serious eye damage/eye irritation: 111-46-6: No eye irritation (Rabbit) [1]

Respiratory or skin sensitization: 111-46-6: Did not cause sensitization on laboratory animals (Guinea

pig) [1]

Mixture (Calculated by GHS): Not categorized

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

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:

Toxicity to fish

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]

Toxicity to daphnia and other aquatic invertebrates

111-46-6: EC50 - Daphnia magna (Water flea) -> 10.000 mg/L - 24 h [1]

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.