

SAFETY DATA SHEET

First Issue: Aug 23, 2017

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

1.1 Product identifiers

Product name: Twin Tone
Product code (Color No.): 61524B(04), 61504B(15), 61518B(21), 61507B(22), 61513B(33), 61512B(41),
61505B(42), 61523B(48), 61525B(49), 61502B(50), 61520B(60), 61521B(61),
61516B(73), 61515B(74), 61511B(75), 61510B(76), 61509B(77), 61522B(78),
61508B(79), 61519B(81), 61506B(82), 61517B(83), 61503B(85), 61514B(86)

Product name: Twin Tone Bright 12pk
Product code : 61500

Product name: Twin Tone Pastel 12pk
Product code : 61501

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

Importer: American Tombow, Inc.
Address: 355 Satellite Boulevard N.E., Suite 300, Suwanee, GA 30024
TEL: +1-678-318-3344
FAX: +1-678-318-3347

1.4 Emergency telephone number

CHEMTREC

United States: 800-424-9300 24 hours everyday
International: +1-703-527-3887 (Collect) 24 hours everyday

Nontransportation

American Tombow, Inc.
TEL: +1-678-318-3344 (9am – 6pm, EST, M-F)

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

2.1.1 Classification according to 29 CFR 1910 (OSHA HCS)

All colors:
Specific target organ toxicity - repeated exposure Category 2

Specific colors (04, 33, 41, 48, 50, 75):
Specific target organ toxicity - repeated exposure Category 2
Skin sensitization Category 1
Respiratory sensitization Category 1

Tombow Pencil Co., Ltd.

No.SDSE_US_170821-1-2

2.1.2 Additional information: No

2.2 Label elements

Labelling according to 29 CFR 1910 (OSHA HCS)

Hazard pictograms:



Signal words: All colors: Warning
 Specific colors (04, 33, 41, 48, 50, 75): Danger

Hazard statement:

All colors:
 H373 Causes damage to organs through prolonged or repeated exposure
 Specific colors (04, 33, 41, 48, 50, 75):
 H317 May cause an allergic skin reaction
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H373 Causes damage to organs through prolonged or repeated exposure

Precautionary statements:

All colors:
 P261 Avoid breathing 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.
 Specific colors (04, 33, 41, 48, 50, 75):
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 Causes severe skin burns and eye damage.
 P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
 P321 Specific treatment (see instructions on this label).
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 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

Tombow Pencil Co., Ltd.

No.SDSE_US_170821-1-2

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 ₂ O	7732-18-5	Trade secret
Diethylene glycol	C ₄ H ₁₀ O ₃	111-46-6	Trade secret
C.I. Acid Yellow 23	C ₁₆ H ₁₂ N ₄ Na ₃ O ₉ S ₂	1934-21-0	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, 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. Ensure adequate ventilation.

Tombow Pencil Co., Ltd.

No.SDSE_US_170821-1-2

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| 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

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|-----|--|---|
| 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

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| 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

l) Vapor density: No data available

m) Relative density: about 1

n) Solubility: Can be diluted with water.

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) Oxidizing 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.

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]

	1934-21-0:	LD50 Oral - mouse - 12.750 mg/Kg [1] Mixture (Calculated by GHS&HCS): 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]
	1934-21-0:	May cause allergic respiratory and skin reactions Category 1 [1] Mixture (Calculated by GHS&HCS): Specific colors (04, 33, 41, 48, 50, 75) Category 1 (Respiratory and Skin sensitizer)
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.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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&HCS): 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] 1934-21-0: EC50 - Daphnia - 5.706,55 mg/L - 48 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]

Tombow Pencil Co., Ltd.

No.SDSE_US_170821-1-2

- 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

Federal regulations

OSHA status:

Diethylene glycol (111-46-6), Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate (1934-21-0) are classified as hazardous by definition under OSHA 29 CFR 1910.

TSCA status:

All materials are listed on Inventory.

CERCLA (40 CFR 302): None
Clean Water Act (40 CFR 116): None
Clean Air Act Amendments of 1990 (40 CFR 82): None
SARA Section 302 (40 CFR 355): None
SARA Section 313 (40 CFR 372): None

SARA Section 311/312 (40 CFR 370): 111-46-6: Acute Health Hazard
1934-21-0: Acute Health Hazard

State regulations

California Safe Drinking Water and Toxics Enforcement Act of 1986 (Proposition 65):

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components:

Water (7732-18-5), Diethylene glycol (111-46-6), Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate (1934-21-0) are listed.

Pennsylvania Right To Know Components:

Water (7732-18-5), Diethylene glycol (111-46-6), Trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate (1934-21-0) are listed.

Please refer to any other regulations in the U.S.

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.