

1 Identification

Product Name: Pilot Twin Marker (inc Begreen)

Other Means of Identification: Article

Product Code:

SCA-TM
SCA-TM-BG

Part Number:

SCA-TM-B/R/L/G/LG/LB/V/P/Y/O/LBN/BN
SCA-TM-B/R/L-BG
MEF-12EU- B/R/L/G/LG/LB/V/P/Y/O/LBN/BN
SC-EU-B(C)/R(C)/L(C)/G(C)/LG(C)/LB(C)/V(C)/P(C)/Y(C)/O(C)/LBN(C)/BN(C) (mixture)

Recommended Use of the Chemical and Restriction on Use: Specialty Permanent Marker

Details of Manufacturer or Importer:

Pilot Pen Australia Pty Ltd
39 Enterprise Circuit
Prestons NSW 2170

Phone Number: 1300 325 866

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

This product is considered as article and is as such exempted from the UN-GHS classification requirements.

The classification based on the hazardous substances contained in the product is provided below for information purposes only.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame

Flammable Liquids 3 H226 Flammable liquid and vapour.



Eye Irritation 2A H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

Signal Word Warning

Hazard Statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc BegreeN)








(Contd. of page 1)

P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Hazardous Components:

CAS: 107-98-2	1-Methoxypropan-2-ol	0-80%
	 Flammable Liquids 3, H226;  STOT SE 3, H336	
CAS: 1569-02-4	1-Ethoxypropan-2-ol	0-80%
	 Flammable Liquids 3, H226;  STOT SE 3, H336	
CAS: 64-17-5	Ethanol	0-40%
	 Flammable Liquids 2, H225;  Eye Irritation 2A, H319	
CAS: 102-71-6	Triethanolamine	0-1%
	 Skin Corrosion/Irritation 2, H315; Eye Irritation 2A, H319; STOT SE 3, H335	

Non Hazardous Components:

Chromium(III) compound (proprietary)	0-15%
Copper compound (proprietary)	0-10%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation occurs and persists.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if feeling unwell.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc BegreeN)

(Contd. of page 2)

Symptoms Caused by Exposure:

Inhalation: May cause drowsiness or dizziness. Intentional exposure to ink vapours may cause respiratory irritation.

Skin Contact: May cause skin irritation, swelling, or redness.

Eye Contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, oxides of nitrogen and oxides of sulfur.

Product is flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: •3Y

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Ventilate spill area. Wear protective equipment. Keep unprotected persons away. Take care as spill may cause a slip hazard.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Wipe up small spills with a paper towel or dry rag. Clean up all spills immediately, since spilled materials, even in small quantities, may present a slip hazard. Absorb large spills with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Decontaminate spill area with water and detergents.

7 Handling and Storage

Precautions for Safe Handling: No special measures required. Avoid rough handling or dropping.

Conditions for Safe Storage:

Store in a dry, cool, well-ventilated location. Take precautionary measures against static discharges. Keep away from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents and reducing agents.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 107-98-2 1-Methoxypropan-2-ol**

WES	STEL: 553 mg/m ³ , 150 ppm
	TWA: 369 mg/m ³ , 100 ppm

CAS: 64-17-5 Ethanol

WES	TWA: 1880 mg/m ³ , 1000 ppm
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(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc Begreen)

(Contd. of page 3)

CAS: 102-71-6 Triethanolamine	
WES	TWA: 5 mg/m ³ Sen

Engineering Controls: Natural ventilation should be adequate under normal use conditions.**Respiratory Protection:** Respiratory protection is not required under normal use conditions.**Skin Protection:** Skin protection is not required under normal use conditions.**Eye and Face Protection:** Eye protection is not required under normal use conditions.

9 Physical and Chemical Properties

Appearance:

Form: Liquid
Colour: According to product specification

Odour: Solvent-like**Odour Threshold:** No information available**pH-Value:** No information available**Melting point/freezing point:** No information available**Initial Boiling Point/Boiling Range:** 120 °C (1-Methoxypropan-2-ol)

78 °C (Ethanol)

132 °C (1-Ethoxypropan-2-ol)

Flash Point: 32 °C (1-Methoxypropan-2-ol)

13 °C (Ethanol)

35 °C (1-Ethoxypropan-2-ol)

Flammability: Flammable**Auto-ignition Temperature:** No information available**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** LEL 1.9 vol% (1-methoxypropan-2-ol)

LEL 3.3 vol% (ethanol)

LEL 1.3 vol% (1-ethoxypropan-2-ol)

Upper: 13.1 vol% (1-methoxypropan-2-ol)

19.0 vol% (ethanol)

12.0 vol% (1-ethoxypropan-2-ol)

Vapour Pressure: 12 hPa (1-methoxypropan-2-ol, at 20 °C)

58.8 hPa (ethanol, at 20 °C)

13.3 hPa (1-ethoxypropan-2-ol, at 20 °C)

Relative Density at 20 °C: 0.90 - 0.97**Vapour Density:** No information available**Evaporation Rate:** No information available**Solubility in Water:** Insoluble**Partition Coefficient (n-octanol/water):** No information available**Viscosity at 20 °C:** 2.9 - 6.9 mPa·s

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Strong oxidising agents and reducing agents.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc Begreen)

(Contd. of page 4)

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, oxides of sulfur.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 107-98-2 1-Methoxypropan-2-ol**

Oral	LD50	5,660 mg/kg (rat)
	LD50	13,000 mg/kg (rabbit)

CAS: 1569-02-4 1-Ethoxypropan-2-ol

Oral	LD50	4,900 mg/kg (rat)
	LD50	9,500 mg/kg (rabbit)

CAS: 64-17-5 Ethanol

Oral	LD50	7,060 mg/kg (rat)
Inhalation	LC50/4 h	20,000 mg/l (rat)

CAS: 102-71-6 Triethanolamine

Oral	LD50	8,000 mg/kg (rat)
	LD50	20,000 mg/kg (rat)

Acute Health Effects**Inhalation:**

May cause drowsiness or dizziness. Intentional exposure to ink vapours may cause respiratory irritation.

Skin: May cause skin irritation, swelling, or redness.**Eye:** Causes serious eye irritation.**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Based on classification principles, the classification criteria are not met.

Triethanolamine and chromium(III) compounds are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause drowsiness and dizziness.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available.**Existing Conditions Aggravated by Exposure:** No information available.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc Begreen)

(Contd. of page 5)

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 107-98-2 1-Methoxypropan-2-ol

EC50/48 h	500 mg/l (daphnia magna)
EC50/72 h	1,000 mg/l (selenastrum capricornutum)
LC50/96 h	1,000 mg/l (rainbow trout)

CAS: 64-17-5 Ethanol

EC50/48 h	9,268-14,221 mg/l (daphnia magna)
	>100 mg/l (selenastrum capricornutum)
EC50/72 h	275 mg/l (algae)
LC50/96 h	>100 mg/l (fathead minnow)
	12-16 mg/l (rainbow trout)
LC50/48 h	>100 mg/l (golden orfe)

CAS: 102-71-6 Triethanolamine

EC50/48 h	609.98 mg/l (daphnia magna)
LC50/96 h	11,800 mg/l (brachydanio rerio)
	11,800 mg/l (fathead minnow)

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	
ADG, IMDG, IATA	UN1993
Proper Shipping Name	
ADG, IMDG, IATA	all colour except black: FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, ETHANOL) black: FLAMMABLE LIQUID, N.O.S. (1-ETHOXY-2-PROPANOL)
Dangerous Goods Class	
ADG Class:	3
Packing Group:	
ADG, IMDG, IATA	III

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc Begreen)

(Contd. of page 6)

Marine pollutant:	No
EMS Number:	F-E, <u>S-E</u>
Hazchem Code:	•3Y
Special Provisions:	223, 274
Transport/Additional information:	The above mentioned information is for ink. Finished marker pen itself is not regarded as dangerous goods. Ink below 10 ml per pen is absorbed in polyester filter reservoir inside of the pen.
Excepted quantities (EQ):	E1
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	None
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals: All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 26.09.2022

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 3: Flammable liquids – Category 3

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”.

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Pilot Pen Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2022

Revision: 26.09.2022

Product Name: Pilot Twin Marker (inc BegreeN)

(Contd. of page 7)

determinations as to the suitability of the information provided to the particular circumstances in which the product is used.