

NAN MEE INDUSTRY COMPANY LIMITED
1121 M.6 T. TEPARUKSA, TEPARUKSA ROAD
A. MUANG SAMUTRPRAKARN 10270 THAILAND

EMERGENCY TELEPHONE (662) 648 - 8000

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

NAME : HORSE PERMANENT MARKER PEN INK AND REFILL INK (all colours)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION	CAS NO.	%
Ethanol	64-17-5	70-85
Dyestuffs, Additive	Blend	15-30

SECTION 3 HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

May be irritating to respiratory tract, skin and eyes. This Product is not rapidly ignitable.

Use only with adequate ventilation.

Wash after handling.

SECTION 4 FIRST AID MEASURES

Eyes : Flush eye with flowing water until no evidence of chemical remains (at least 15 minutes)

Skin : Remove any contaminated clothing, wash with isopropyl rubbing alcohol and flowing water for 15 minutes. If irritation continues consult a physician.

Inhalation : Remove from exposure in severe cases obtain medical attention.

Ingestion : Do not induce vomiting. Obtain medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Flash point : 12.8 °C

Flammable Limits LEL 3.3 %

UEL 19 %

Auto ignition temperature : 689 °F

Material to avoid strong oxidizing agents

Hazardous decomposition products carbon monoxide can form on complete combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Person related safety precautions : Not required.

Step to be taken if material is released or spilled : can be cleaned with alcohol.

SECTION 7 HANDLING AND STORAGE

Keep container closed.

Keep away from heat and flame.

Accidental contact should be clean with alcohol and then water immediately.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection : Not required

Eye protection : Safety glasses recommended during refilling.

Skin : Not required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling point : > 78 °C

Specific gravity : 0.825 - 0.870

Solubility in water : Soluble

Appearance : Colored liquid.

Odor : Characteristic odour

Colour : According to product specification.

Flash point : 12.8 °C

SECTION 10 STABILITY AND REACTIVITY

Normally a stable product.decomposition products generated at high temperatures.reacts strongly with oxidisers.

SECTION 11 TOXICOLOGICAL INFORMATION

Ethanol and other content may cause liver and kidney damage if abused.

SECTION 12 ECOLOGICAL INFORMATION

Slightly hazardous for water.Do not allow undiluted product or large quantities of it to reach ground water,bodies or sewage system.

SECTION 13 DISPOSAL CONSIDERATIONS

Burn or bury in accordance with local regulations " SPECIAL"waste empty containers are to be treated as hazardous and not to be reused.

SECTION 14 TRANSPORT INFORMATION

No unusual transport.

SECTION 15 REGULATORY INFORMATION

No data available.

SECTION 16 OTHER INFORMATION

No data available.



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Date: Sep 23, 2020

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NAN MEE INDUSTRY CO., LTD.

1121 MOO 6, TEPARAKSA ROAD, T.TEPARAKSA, A.MUANG-SAMUTHPRAKARN,
SAMUTHPRAKARN 10270, THAILAND

The following samples were submitted and identified on behalf of the client as:

PERMANENT INK BLUE COLOR (ALCOHOL BASED)

SGS Case No. : CA320202920849
Manufacturer : NAN MEE INDUSTRY CO., LTD.
Country of Origin : THAILAND
Country of Destination : EUROPE, ASIA, UNITED STATES
Sample Receiving Date : SEP 15, 2020
Test Performing Date : SEP 15 – 23, 2020

Test Requested	Conclusion
1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC (Selected test as specified by client)	PASS
2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content (Selected test as specified by client)	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.Cheung Cheuk Fung, Henry
Assistant Operations Manager

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Test Report

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Test Results:

1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method :

For Lead, Cadmium : With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS).

For Mercury : With reference to IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

For PBB and PBDEs : With reference to IEC 62321-6:2015, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Chromium (VI) : With reference to IEC 62321-7-2:2017, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Cadmium (Cd)	ND	5	100
Lead (Pb)	ND	5	1000
Mercury (Hg)	ND	5	1000
Hexavalent Chromium (Cr(VI))	ND	5	1000
Sum of PBBs	ND	--	1000
Monobromobiphenyl	ND	5	--
Dibromobiphenyl	ND	5	--
Tribromobiphenyl	ND	5	--
Tetrabromobiphenyl	ND	5	--
Pentabromobiphenyl	ND	5	--
Hexabromobiphenyl	ND	5	--
Heptabromobiphenyl	ND	5	--
Octabromobiphenyl	ND	5	--
Nonabromobiphenyl	ND	5	--
Decabromobiphenyl	ND	5	--
Sum of PBDEs	ND	--	1000
Monobromodiphenyl ether	ND	5	--
Dibromodiphenyl ether	ND	5	--
Tribromodiphenyl ether	ND	5	--
Tetrabromodiphenyl ether	ND	5	--
Pentabromodiphenyl ether	ND	5	--
Hexabromodiphenyl ether	ND	5	--
Heptabromodiphenyl ether	ND	5	--
Octabromodiphenyl ether	ND	5	--
Nonabromodiphenyl ether	ND	5	--
Decabromodiphenyl ether	ND	5	--
Comment	PASS	--	--

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Sample Description:

1. Blue liquid (Permanent ink)

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

Remark: Results shown as ND are ignored in the sum calculation

2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content

Method : With reference to IEC 62321-8:2017. Analysis was performed by Gas Chromatography / Mass Spectrometry

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Permissible Limit (%)
		1		
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Comment	--	PASS	--	--

Sample Description:

1. Blue liquid (Permanent ink)

Note : 1. % = percentage by weight

2. ND = Not Detected

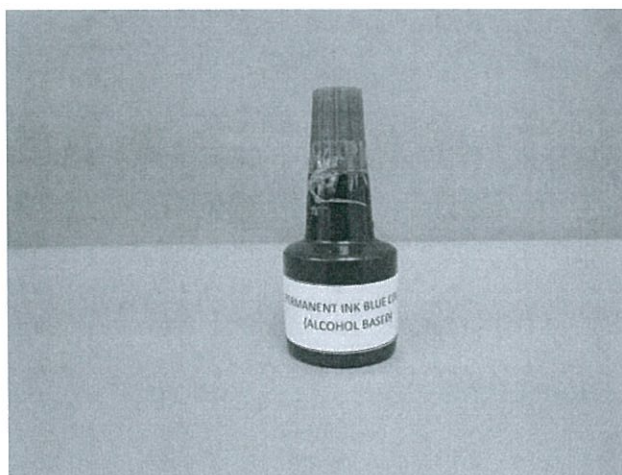
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Remark:

- When statement of conformity is made, unless inherent in the requested specification or instructed by the applicant, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U_{95}$) in ILAC-G8:09/2019 Clause 4.2.3.
 "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."
 "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.
 "Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%."

Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

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