

# Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006 (REACH)



## TEST INK / PENS PINK 30 - 44 mN/m

Product no.: 40.60xxx.0 / 40.451xx.0

Revision date: 01/12/2023

Page 1 of 9

Print date: 01/12/2023 / Version 3.7 en

### 1. Identification of the substance or mixture and of the company

#### 1.1 Product identifier:

##### Trade name / designation:

TEST INK / TEST PENS

UFI-Codes: see annex of this safety data sheet.

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

##### 1.2.1 Uses of the substance or mixture:

Determination of the surface tension and surface cleanliness of solids (films / moulded parts) made of plastic, metal, glass etc.

**1.2.2 Uses advised against:** Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

#### 1.3 Details of the supplier of the safety data sheet

Company name	arcotest GmbH
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Phone	+49 7044 9022 70
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Contact for information	Mrs Anca Muresan
E-mail	info@arcotest.info
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<b>1.4 EMERGENCY TELEPHONE NUMBER:</b>	<b>+49 170 5351 781</b> (24h in German and English)

### 2. Possible Dangers

#### 2.1. Classification of the mixture:

##### Regulation (EC) No. 1272/2008

Eye irritation, category 2	H319
Irritant effect on the skin, category 2	H315
Acute toxicity, category 4 (oral)	H302
STOT RE2	H373

##### Additional information:

Full text of H and EUH phrases: see under section 16.

#### 2.2. Labelling elements

##### Labelling in accordance with Regulation (EG) No. 1272/2008 [CLP]

##### Hazard-determining components of labeling:

Ethanol (maximum 15 %)

Diethylene glycol

##### Hazard pictograms:



##### Signal word:

Warning

##### Hazard statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

##### Precautionary statements:

P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust/vapours.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P501 Dispose of contents / container to a hazardous waste collection point or special requirements in accordance with local, regional or international regulations.

Labelling of packaging with contents of no more than 125 ml

Signal word: Warning

Hazard symbol:



**For professional users only.**

### 2.3 Other hazards:

No additional information is available.

## 3. Composition / Information on Ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Designation				
CAS No.	EC No.	REACH No.	Index No.	%
Classification in accordance with Regulation (EG) No. 1272 [CLP]				MG in g/mol
<b>2-Methyl-2,4-pentanediol</b> – C <sub>6</sub> H <sub>14</sub> O <sub>2</sub>				
107-41-5	203-489-0	01-2119539582-35-xxxx	603-053-00-3	3-90%
Eye Irrit. 2, Skin Irrit. 2; H319, H315				118.17 g/mol
<b>Diethylene glycol - <i>Synonym: 2,2'-oxydiethanol</i></b> – C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>				
111-46-6	203-872-2	01-2119475610-41-xxxx	603-140-00-6	10-100%
Acute tox. 4 (oral), STOT RE 2; H302, H373				106.12 g/mol

Preparation of organic solvents and colouring components

#### Additional information:

Full text of H and EUH phrases: see under section 16.

## 4. First Aid Measures

### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air

#### After skin contact:

Rinse with plenty of water. Remove contaminated clothing.

#### After eye contact:

Rinse with plenty of water. Consult an ophthalmologist in case of eye irritation.

#### After ingestion:

Drink plenty of water immediately (maximum 2 glasses). Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Coughing, dyspnoea, dizziness, unconsciousness, headache, convulsions, nausea, vomiting.

### 4.3 Indication of any immediate medical attention or special treatment needed

No information available.

## 5. Fire-fighting Measures

### 5.1 Extinguishing agents:

Water, carbon dioxide (CO<sub>2</sub>), foam, extinguishing powder

### 5.2 Specific hazards arising from the substance or mixture

Flammable substances, vapours are heavier than air and spread over the floor.

Intense heating may cause explosive mixtures with air to form.

Hazardous combustion gases or vapours may form in case of fire: carbon monoxide and carbon dioxide.

### 5.3 Advice for fire-fighters

Do not stay in the danger area without self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.

#### Additional information:

Prevent extinguishing water from entering the surface water or ground water system.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Do not inhale vapours/aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger zone, observe emergency procedures, consult an expert.

#### Emergency services

Protective equipment: see section 8

### 6.2 Environmental precautions:

Do not empty into drains. Risk of explosion.

### 6.3 Methods and material for containment and cleaning up

Seal drains. Contain, control and pump off the spillage.

Please note possible material restrictions! (Information in section 7 or section 10)

Absorb with liquid-binding material. Send for disposal. Clean up area.

### 6.4 Reference to other sections

Refer to section 13 for disposal information

## 7. Handling and Storage

### 7.1 Precautions for safe handling

#### Protective measures:

Avoid formation of aerosols. Keep container tightly closed

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage facilities and containers:

Keep tightly closed.

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end uses:

There are no other specific end uses other than those referred to in section 1.

## 8. Exposure Limitation and Control / Personal Protective Equipment

### 8.1 Control parameters

No data available.

### 8.2 Exposure limitation and control

Technical protection measures and the use of suitable working methods always have priority over the use of personal protective equipment. See section 7.

#### 8.2.1 Appropriate engineering controls:

The method for measuring the workplace atmosphere must comply with the requirements of DIN EN 482 and DIN 689.

#### 8.2.2 Personal protective equipment:

Body protection needs to be selected specifically for the workplace based on the concentration and volume of hazardous substances. The chemical resistance of the protective equipment should be ascertained with the respective supplier.

As work is generally carried out with very small quantities, there is less need for personal protective equipment with the exception of appropriate hand protection if used carefully and properly with a brush or pen application as long as skin contact can be excluded. It is advisable to use special skin barrier cream to protect the skin.

#### Hygiene measures:

Change contaminated clothing immediately. Preventative skin protection. Wash hands and face after finishing work.

#### Eye protection:

Safety goggles

#### Hand protection:

In full contact:	Hand protection material: Nitrile rubber, Layer thickness 0.40 mm, > 480 min breakthrough time
With splash contact:	Hand protection material: nitrile rubber, Layer thickness 0.11 mm, >240 min breakthrough time

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resultant standard EN 374, for example KCL 706 Lapren® (full contact), KCL 741 Dermatrill® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests according to EN374 with samples of the recommended glove types.

This recommendation applies only for the product mentioned in this safety data sheet that is supplied for the purpose specified by us. If it is dissolved in or mixed with other substances and under conditions deviating from EN374, you will need to contact suppliers of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell).

**Respiratory protection:**

Required when vapours/aerosols are generated.

Recommended filter type: filter A

The operator must ensure that the maintenance, cleaning and testing of breathing apparatus is carried out and documented in accordance with the manufacturer's user information.

**8.2.3 Environmental exposure limitation and control**

Do not empty into drains

**9. Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

Form:	liquid
Colour:	pink
Odour:	nearly odourless
Odour threshold:	no information available
pH value:	no information available
Melting point:	by grading, between -40 and -6°C
Boiling point / boiling range:	by grading, between 196 and 252°C at 1013 hPa
Flash point:	between 93 and 138°C c.c. (DIN 51758)
Evaporation rate:	no information available
Flammability (solid, gaseous):	no information available
Lower explosion limit:	between 0,7 and 1 % vol
Upper explosion limit:	between 9.9 and 22 % vol
Vapour pressure:	(20°C): between 0.008 and 0.07 hPa
Density:	no information available.
Solubility:	no information available.
Water solubility:	no information available.
Partition coefficient; n	log Pow: -1.98 to 0.58 (25°C)
Octanol/water	Method: (IUCLID) (lit.) Bioaccumulation is not expected (log Pow <1)
Autoignition temperature:	no information available
Decomposition temperature:	no information available
Viscosity, dynamic:	(20°C) 36 – 45 mPa.
Explosive properties:	no information available
Oxidising properties:	no information available
Organic solvent:	100.0 %
VOC (EU)	100.00 %
<b>Other information:</b>	
Ignition temperature:	between 355 and 425 (DIN 51794)
Particle characteristics:	not relevant (liquid)

**10. Stability and Reactivity**

**10.1 Reactivity:**

Intense heating may cause explosive mixtures with air to form.

**10.2 Chemical stability:**

The product is chemically stable under normal ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions:**

Violent reactions are possible with mineral acids, strong oxidising agents

**10.4 Conditions to avoid:**

Intense heating. A range from approx 15 Kelvin below the flash point is to be considered critical.

**10.5 Incompatible materials:**

No information available

**10.6 Hazardous decomposition products:**

No information available

## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

##### Acute toxicity of Diethylene glycol

Oral: LD<sub>50</sub> human: dose 1000 mg/kg (TOXNET)

Dermal: LD<sub>50</sub> rabbit: dose 11890 mg/kg (TOXNET)

##### Acute toxicity of 2-Methyl-2,4-pentanediol

Oral: LD<sub>50</sub> rat: dose 3692 mg/kg (IUCLID); absorption

Inhalation: Symptoms: mucosal irritation, coughing, dyspnoea

Dermal: LD<sub>50</sub> rabbit: dose 8000 mg/kg (RTECS);

Skin irritation with Diethylene glycol: No irritation

Skin irritation with 2-Methyl-2,4-pentanediol (rabbit): Irritations (IUCLID)

Eye irritation with Diethylene glycol: No irritation

Eye irritation with 2-Methyl-2,4-pentanediol (rabbit): Causes serious eye irritation

Sensitisation test with Diethylene glycol (guinea pig): negative

In-vitro genotoxicity with Diethylene glycol Ames test: negative (IUCLID)

In-vitro genotoxicity with 2-Methyl-2,4-pentanediol Ames test: negative (IUCLID)

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

##### Specific target organ toxicity (single exposure)

The mixture is not classified as target organ toxic with single exposure.

##### Specific target organ toxicity (repeated exposure)

The mixture is not classified as target organ toxic with single exposure.

##### Risk of aspiration

No classification with regard to aspiration toxicity

##### Further information:

Systemic effects:

If swallowed: Nausea, vomiting, effects on the central nervous system, tiredness. Can cause: Kidney problems, other hazardous characteristics cannot be excluded.

Headache, dizziness, convulsions, unconsciousness, drop in blood pressure, tachycardia

##### Further information:

Take the normal precautions when handling chemicals.

### 11.2 Endocrine disrupting properties

Not listed.

### 11.3 Information on other hazards

There is no additional information.

## 12. Ecological Information

### 12.1 Ecotoxicity:

#### Diethylene glycol:

(Akute) aquatische Toxizität

LC<sub>50</sub> Pimephales promelas 75.200 mg/l /96 h (ECHA)

EC<sub>50</sub> Daphnia magna >10.000 mg/l /48 h

(Chronische) aquatische Toxizität

EC<sub>50</sub> wirbellose Wasserlebewesen >10.000 mg/l / 24h (ECHA)

#### 2-Methyl-2,4-pentanediol:

Fish toxicity: LC<sub>50</sub> Gambusia affinis: 8510 mg/l/ 96 h (ECOTOX Database)

Daphnia toxicity: EC<sub>50</sub> Daphnia magna: 5410 mg/l /48 h (IUCLID)

Bacteria toxicity: EC<sub>50</sub> Photobacterium phosphoreum: 3070 mg/l 5 min (IUCLID)

### 12.2 Persistence and degradability

#### Diethylene glycol:

Prozess: biotisch/abiotisch, 91,8% /28d

#### 2-Methyl-2,4-pentanediol:

Biodegradability: >70% - 28d / Method: OECD guideline for testing 302B

Result: easily eliminated (DOC reduction >70%)

### 12.3 Bioaccumulation potential:

Partition coefficient; n-Octanol / water

Diethylene glycol: Log Kow: -1,98 (25°C)

BCF: 100

2-Methyl-2,4-pentanediol: Log Pow: 0.58 (calculated)

Bioaccumulation is not expected (log Pow<1)

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

A PBT/vPvB assessment is not available and a chemical safety assessment is not required / has not been carried out.

**12.6 Other harmful effects:**

**Additional ecotoxicological information:**

Do not allow to enter watercourses, waste water or soil!

**12.7 Endocrine disrupting properties**

Not listed.

**12.8 Other adverse effects**

Data are not available.

**13. Disposal Considerations**

**13.1 Waste management process**

This product and its container must be disposed of as hazardous waste. Disposal of contents and containers in accordance with local/regional/international regulations.

**Information relevant for waste water disposal**

Do not allow to enter sewerage system.

**13.2 Relevant waste legislation**

The assignment of the waste code numbers /waste designations shall be carried out in accordance with EAKV in a sector- and process-specific manner.

**13.3 Notes**

Waste shall be separated in such a way that it can be treated separately by municipal or national waste facilities. Please observe the relevant national or regional regulations.

**13.4 Further information**

Ink that is no longer usable can be returned for disposal.

**14. Transport Information**

**14.1 Special precautions for users**

Not classified as a hazardous material according to the ADR/RID, ADN, IATA, IMDG transport regulations

**14.2 Transport in bulk according to Annex II of the MARPOL 73/78 Convention and the IBC Code**

Not relevant.

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1 EU regulations**

**Hazardous Incident Ordinance:** 96/82/EC

Directive 96/82/EC does not apply

**Employment restriction:**

Protection Act (94/33/EC).

Observe employment restrictions in accordance with the Youth

Observe employment restrictions in accordance with the Pregnant Workers Directive (EC 92/85/EEC) for expectant or nursing mothers.

**Relevant European Union (EU) regulations for Ethanol / Methyl-2,4-pentandiol:**

**Regulation 649/2012/EU on the export and import of dangerous chemicals (PIC).**

Not listed.

**Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS).**

Not listed.

**Regulation 850/2004/EC on Persistent Organic Pollutants (POP)**

Not listed.

**Regulation 75/324/EWG on Aerosol packages**

Filling lot.

**Seveso Directive 2012/18/EU (Seveso III)**

Not assigned.

**Decopaint Directive (2004/42/EC)**

Diethylenglycol: VOC-Content 100 %

Methyl-2,4-pentandiol: 100 % / 920 g/l

**Regulation Industrial (VOCs, 2010/75/EU)**

Methyl-2,4-pentandiol: 0 % / 0 g/l

**Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) - Annex II**

Not listed.

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Pollutant Release and Transfer Register (PRTR)**

Not listed.

**Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

Not listed.

**Regulation 98/2013/EU on the marketing and use of explosives precursors**

Not listed

**Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Not listed

**Restrictions according to REACH, Title VIII**

Not listed.

**List of substances subject to authorisation (REACH, Annex XIV) /SVHC - candidate list**

Not listed.

**Substance is listed in the following national inventories:**

Country	National Directories	Substance status
AU	AICS	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
CA	DSL	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
CN	IECSC	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
EU	ECSI	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
EU	EINECS/ELINCS/NLP	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
JP	CSCL-ENCS	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
KR	KECI	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
MX	INSQ	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
NZ	NSQ	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
PH	PICCS	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
TR	CICR	Diethylenglycol is listed Methyl-2,4-pentandiol is listed
TW	TCSI	Diethylenglycol is listed Methyl-2,4-pentandiol is listed

**Legende**

- AICS Australian Inventory of Chemical Substances
- CICR Chemical Inventory and Control Regulation
- CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
- DSL Domestic Substances List (DSL)
- ECSI EG-Stoffverzeichnis (EINECS, ELINCS, NLP)
- IECSC Inventory of Existing Chemical Substances Produced or Imported in China
- INSQ National Inventory of Chemical Substances
- KECI Korea Existing Chemicals Inventory
- NZIoC New Zealand Inventory of Chemicals
- PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- REACH Reg. REACH registrierte Stoffe
- TCSI Taiwan Chemical Substance Inventory
- TSCA Toxic Substance Control Act

**15.1.3 National regulations (Germany)**

Storage class VCI: 10 Flammable liquids unless storage class 3

BG Chemie data sheet: M004 Irritating substances/corrosive substances  
M050 Handling hazardous materials

Water hazard class: WGK 1 Slightly harmful to water

**15.2 Chemical safety assessment:**

No chemical safety assessment has been carried out for this product.

**16. Other Information**

**16.1 Changes made (revised safety data sheet)**

Notice of changes: Section 1 Section 2 Section 3 Section 16

**16.2 Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DIN	German Institute for Standardisation
EG	European Community
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
log K <sub>ow</sub>	Partition coefficient between octanol and water
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative, Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
VwVwS	Administrative Regulation on the Classification of Substances Hazardous to Water
WGK	Water Hazard Class

**16.3 Most important literature references and data sources**

The data for the hazardous ingredients was taken from the most recent version of the pre-supplier's safety data sheet. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

**16.4 Classification of mixtures and evaluation methods used in accordance with Regulation (EC) No. 1272/2008 [CLP]**

See section 2.1 (classification).

**16.5 Wording of H and EUH phrases (number and full text):**

- H302: Harmful if swallowed.
- H315: Causes skin irritation
- H319: Causes serious eye irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.

**16.6 Training advice:**

Provide appropriate information, instructions and training for users.

**16.7 Other information:**

The health hazards referred to in this data sheet may occur if larger quantities of the product are handled carelessly or inappropriately and when safety precautions and hygiene measures are not observed. However, as a quantity of several milligrams is used in a process to measure the surface tension and these measurements are not continuous but instead conducted over a period of one or more hours, we can practically exclude any damage to health if the product is handled correctly and the prescribed safety measures are observed (these include good ventilation and appropriate hand protection).

<b>Information:</b>	Phone	+49 7044 9022 70
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The information contained herein is based on our present knowledge and characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product described. Changes or duplications require the express permission of arcotest GmbH



**Annex: UFI-CODE**

Article	Article-No.	UFI-Code
Test Ink PINK 30 mN/m	40.60030	5Q7Q-QP92-FC02-1CEC
Test Ink PINK 31 mN/m	40.60031	US7Q-6PYF-RC0J-QQ0E
Test Ink PINK 32 mN/m	40.60032	7V7Q-QPNV-2C02-C1KG
Test Ink PINK 33 mN/m	40.60033	FY7Q-7PC8-CC0J-1D5J
Test Ink PINK 34 mN/m	40.60034	F18Q-RP1N-PC01-PQRM
Test Ink PINK 35 mN/m	40.60035	F48Q-7PR1-YC0J-C2AP
Test Ink PINK 36 mN/m	40.60036	778Q-RPEF-9C01-0DWR
Test Ink PINK 37 mN/m	40.60037	R98Q-8P3U-KC0H-PRGT
Test Ink PINK 38 mN/m	40.60038	VD8Q-RPT7-WC01-A32V
Test Ink PINK 39 mN/m	40.60039	HG8Q-8PGN-6C0H-0ENX
Test Ink PINK 40 mN/m	40.60040	FJ8Q-SP61-HC00-NS80
Test Ink PINK 41 mN/m	40.60041	4N8Q-8PVE-TC0H-A3U2
Test Ink PINK 42 mN/m	40.60042	HQ8Q-SPJU-4C00-YFE4
Test Ink PINK 43 mN/m	40.60043	RT8Q-9P87-EC0G-NT06
Test Ink PINK 44 mN/m	40.60044	JW8Q-SPXM-RC00-94K8
Test Pen PINK 30 mN/m	40.45030	DVPC-NNWE-4C0T-QPHM
Test Pen PINK 31 mN/m	40.45031	5YPC-5NKT-FC0A-D13P
Test Pen PINK 32 mN/m	40.45032	52QC-PN96-RC0T-1CPR
Test Pen PINK 33 mN/m	40.45033	94QC-5NYM-2C09-QQ8T
Test Pen PINK 34 mN/m	40.45034	07QC-PNP0-CC0T-C1UV
Test Pen PINK 35 mN/m	40.45035	5AQC-6NCD-PC09-1DEX
Test Pen PINK 36 mN/m	40.45036	MDQC-QN1S-YC0S-PR10
Test Pen PINK 37 mN/m	40.45037	HGQC-6NR6-9C09-C2M2
Test Pen PINK 38 mN/m	40.45038	DKQC-QNEK-KC0S-0E64
Test Pen PINK 39 mN/m	40.45039	2NQC-7N3Y-WC08-PRS6
Test Pen PINK 40 mN/m	40.45040	7RQC-QNTD-6C0S-A3C8
Test Pen PINK 41 mN/m	40.45041	UUQC-7NGS-HC08-0EXA
Test Pen PINK 42 mN/m	40.45042	JWQC-RN65-TC0R-NSHD
Test Pen PINK 43 mN/m	40.45043	40RC-7NVK-4C08-A43F
Test Pen PINK 44 mN/m	40.45044	H2RC-RNJY-EC0R-YFPH