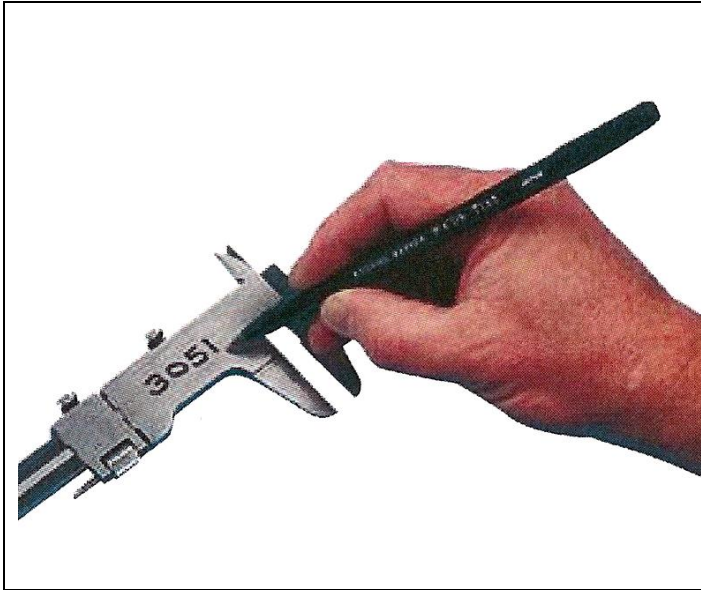


Metal Etching Pen

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Suitable for permanent etching identification references on
The following metal surfaces:

Alloy and stainless steel
Iron
Copper
Gun metal

It will not mark aluminium surfaces

Shelf Life: 18 months depending on storage

Packed Weight and Dimensions

Code	Description	Weight g	W mm	H mm	L mm
52-730-005	Metal Etching Pen	12	55	10	200

Instructions

The surface for marking should be clean and free from oil
For light marking make only a single pass with the pen
For darker marking make repeated passes with the pen to achieve the legibility required
Lightly wipe the surface following etching with light oil
If the etching agent is splashed on the skin, wash with soap and water

Please see the following 6 pages covering the Safety Data Sheet information

SAFETY DATA SHEET METAL ETCHING PEN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name METAL ETCHING PEN
Product No. 52-730-005

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

Identified uses Marking pen for metal
Uses Advised Against At this moment in time we do not have information on use restrictions.
They will be included in this safety data sheet when available

1.3. Details of the supplier of the safety data sheet

Supplier: Linear Tools Ltd.,
Unit 1 Clocktower Industrial Estate,
Clocktower Road,
Isleworth,
Middlesex,
TW7 6DT

1.4. Emergency telephone number

0208 400 2020 (9am – 5pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xi; R36, R38

2.2. Label elements

Labelling



Xi Irritant

Risk Phrases	R36/38	Irritating to eyes and skin
Safety Phrases	S24/25 S22	Avoid contact with eyes and skin Wash with plenty of soap and water

Do not place in a pocket or confuse with drawing pens

METAL ETCHING PEN

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical	% Content	Classification according to CLP
Hydrochloric Acid	35% Diluted	GHS05, H290
Sulphuric Acid	7%	GHS05, H314
Diluted Nitric Acid	6%	GHS05 H290
Distilled Water	52%	Not Classified
Total	100%	0.10cc per piece

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.

Not required

Ingestion.

Immediately rinse mouth with water

Skin Contact.

Wash skin with liberal amounts of soap and water

Eye Contact.

Rinse affected eye with liberal amounts of water
In case of continued eye irritation consult a doctor

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

Inhalation.

None

Ingestion.

May cause discomfort in mouth

Skin Contact.

Prolonged contact may cause redness, irritation and dry skin

Eye Contact.

May cause severe irritation to eyes

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically, no recommendations given. First aid may still be required in case of accidental skin contact, eye contact or ingestion of the chemical in this product. If in doubt, GET MEDICAL ATTENTION PROMPTLY

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Not Required - Non Combustible

METAL ETCHING PEN

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling in this safety data sheet

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid skin and eye contact

7.2. Conditions for safe storage, including any incompatibilities

Keep cover on pen tip when not in use; keep out of the reach of children

7.3. Specific end use

The identified use for this product is detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Not listed

8.2. Exposure controls

Protective gloves and safety glasses should be worn when using this product

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. information on physical and chemical properties

Appearance	Liquid contained within a pen
Initial boiling point	100°C
Flashpoint	N/A
Solubility in water	N/A

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity.

Pen will mark the surface of the following materials.

Alloy and Stainless Steel

Iron

Copper

Gun Metal

Pen does not react with Aluminium

10.2. Stability.

Stable under normal temperature conditions and recommended use

10.3. Possibility of hazardous reactions.

Hazardous Polymerisation

Will not polymerise

METAL ETCHING PEN

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin Contact

Irritating to skin

Eye Contact

Irritating to eyes

Route of entry

Skin and/or eye contact

Target Organs

Skin, Eyes

Medical Symptoms

Irritation of skin, Irritation of eyes

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product components are not classified as environmentally hazardous

12.1. Toxicity

Not considered toxic

12.2. Persistence and degradability

Degradability

The product is biodegradable

12.3. Bio accumulative potential

Bio accumulative potential:

Will not bio-accumulate

12.4. Mobility in soil

Mobility:

The product is soluble in water

12.5. Results of PBT and vPvB assessment

This product does not contain any Pb (lead), Hg (mercury), Cd (cadmium) +6Cr(VI)(hexavalent chromium) PBB and PBDE

12.6. Other adverse effects

Not determined

METAL ETCHING PEN

SECTION 13: DISPOSAL CONSIDERATIONS

General Information:

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Disposal of waste and residues in accordance with local authority requirements

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2. Un Proper shipping name

Not applicable

14.3. Transport hazard class

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/77 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

UK Regulatory References

Chemicals (Hazard Information & Packaging) Regulations

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments

Environmental Listing

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

Control of Pollution Act 1974

Approved Code of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations

Guidance Notes

Workplace Exposure Limits EH40.

METAL ETCHING PEN

EU Legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC

Dangerous Substance Directive 67/548/EEC

Dangerous Preparations Directive 1999/45/EC

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

SECTION 16: OTHER INFORMATION

Revision Comments

None