

# DATA SHEET

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Date. 06 / 02 / 2002

Product Code	Description
52-730-005	Metal Etching Pen

## Material Safety Data

- 1) Product Name: Metal Etching Pen, (Etching Marker)  
Product Code: 52-730-005  
  
Contains etching ink NIGRIT "VA"  
For durable inscription or marking of heavy metals  
  
Hazardous material description and proper shipping name (IATA/RAR):  
Etching Ink – Acids, liquid, n.o.s.  
  
Hazard class: Corrosive material (IATA/RAR)  
Chemical Family: Acid – Formula: see section 2
- 2) Ingredients: The cartridge of the Metal Etching Pen, code 52-730-005  
contains, 1.0ml etching ink maximum  
  
The acid contained in the cartridge is composed of 50% hydrochloric acid  
(HCl), plus Salt of Copper, plus Selenious Acid (H<sub>2</sub>SeO<sub>3</sub>)  
It is a mineral acid solution of salts and heavy metals plus Selenious acid
- 3) Physical Data:  
Boiling Point: Starting at 100°C  
Solubility in water: unlimited mixable  
Appearance: liquid  
pH: below zero
- 4) Fire and Explosion Hazard Data: N.A. non-flammable liquid
- 5) Health and Hazard Data:  
Effects of over exposure: Toxic, corrosive – non-absorbing  
First Aid: Skin Irritations – Eye Irritations: consult a doctor
- 6) Spill Procedure: Wash with water

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## Use Instructions

Suitable for permanent etching of codes, sizes and identification references on the following metal surfaces: Alloy and Stainless Steel, Iron, Copper & Gun Metal

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 etching agent is splashed on skin, wash with soap and water