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 Date: 11.03.99
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MATERIAL SAFETY DATA SHEET

**COMMERCIAL NAME: DALIC NICKEL TUNGSTEN PLATING SOLUTION (4008)
 DAS 7500**

IDENTITY	% W/W	CLASSIFICATION	CAS. NO.	OES (mg/m ³)	
				LONG TERM	SHORT TERM
Nickel Sulphate	5-20	Carc. Cat3; R40 Sensitising Xn; R42/43 Xi; R36	7786-81-4	0.1 (As Ni)	--
Ammonium Tungstate	1-4				

HAZARD IDENTIFICATION

Irritating to eyes. Mist and fumes may cause irritation of the upper respiratory tract. Sensitisation through inhalation or skin contact may also occur. A possible carcinogen.

TOXICITY DATA

Exposure to nickel compounds has produced cases of allergic skin reactions ('nickel itch'). People with a history of eczema or nickel dermatitis must not be exposed to nickel compounds.

FIRST AID

INHALATION Remove to fresh air and quiet environment. If there is respiratory distress, give oxygen until medical attention can be given.

SKIN CONTACT Remove contaminated clothing and wash all affected areas of skin with water for at least 10 minutes. In severe cases obtain medical attention.

EYE CONTACT Rinse immediately with plenty of water and seek medical advice.

INGESTION Rinse mouth liberally with water. Drink plenty of water or milk. Obtain medical attention **urgently**.

OTHER

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FIRE & EXPLOSION MEASURES

SUITABLE EXTINGUISHING MEDIA	Not applicable.
UNSUITABLE EXTINGUISHING MEDIA	Not applicable.
POSSIBLE EXPOSURE HAZARDS	May evolve toxic fumes in fire.
PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	Self-contained breathing apparatus.

SPILL OR LEAKAGE PROCEEDURES

Soak up with absorbent material (sand etc) and dispose of to Local Authority Regulations or via a licensed disposal contractor.

HANDLING AND STORAGE

Do not freeze. Store at ambient temperature away from direct sunlight and heat, in tightly closed containers. Ensure that all containers are clearly and appropriately labeled.

EXPOSURE CONTROL/PERSONAL PROTECTION

Wear eye protection and dust/mist mask or face shield, nitrile gloves and suitable protective clothing. Use in well ventilated area preferably with local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat drink or smoke in the area where this product is used. Wash hands thoroughly before undertaking any of these activities.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR DARK GREEN LIQUID

Boiling Point: 100 °C	Freezing Point: 0 °C	Specific Gravity: 1.26
Flash Point: N/A	PH: 2.5	Solubility in water: Infinite

STABILITY AND REACTIVITY

STABILITY	Stable at ambient temperature
MATERIALS TO AVOID	Not applicable.
HAZARDOUS DECOMPOSITION PRODUCTS	May evolve toxic fumes in fire

ECOLOGICAL INFORMATION

DISPOSAL CONSIDERATIONS

To Local Authority Regulations or via a licensed disposal operator.

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TRANSPORT INFORMATION

UN NO: 1760 CLASS: 8 PACKING GROUP: III I.M.D.G.:
ADR/RID: ICAO/IATA: 818 (5 litres) and 820 (60 litres)

REGULATORY INFORMATION

LABEL X
CLASSIFICATION HARMFUL

RISK PHRASES

Possible risk of irreversible effects. May cause sensitisation by inhalation and skin contact. Irritating to the eyes. Store away from direct sunlight and heat. Do not freeze.

SAFETY PHRASES

When using do not breathe mist or spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

CHEMICALS TO BE NAMED

CONTAINS: Nickel Sulphate

OTHER INFORMATION

Store away from direct sunlight and heat. Do not freeze.

EVERY ENDEAVOUR HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED IN THIS DATA SHEET IS RELIABLE. HOWEVER WE CANNOT ACCEPT LIABILITY FOR ANY LOSS, INJURY OR DAMAGE WHICH MAY RESULT FROM ITS USE.

THE INFORMATION CONTAINED IN THIS DATA SHEET SHOULD BE USED FOR THE PURPOSE OF HEALTH AND SAFETY ONLY. ITS CONTENTS SHOULD NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF **Dalic Australasia Pty Ltd.**

Date of completion 01.12.2000

Revised date 01.03.2005

Jan L Mackenzie .

Authorised by: Ian L Mackenzie Signed