



Issue: 6
Date: 01.12.2005
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MATERIAL SAFETY DATA SHEET

COMMERCIAL NAME: DALIC CADMIUM 2023 PLATING SOLUTION DPS 6123

| IDENTITY | % W/W | CLASSIFICATION | CAS. NO. | OES (mg/m ³) | |
|---------------------|-----------|-----------------------------|--------------|--------------------------|------------|
| | | | | LONG TERM | SHORT TERM |
| Cadmium EDA Complex | 10 --> 30 | CARC CAT2; R49 T; R48/23/25 | -- | 0.025 | -- |
| Cadmium EDA Complex | 10 --> 30 | Xn: R22 | -- | 0.025 | -- |
| Cadmium EDA Complex | 10 --> 30 | Xi; R36/38 | -- | (As Cd) | -- |
| 1,2 Diaminoethane | 2 --> 9 | Sensitising Xi;R43 | 107 - 15 - 3 | | -- |
| 1,2 Diaminoethane | 2 --> 9 | | 107 - 15 - 3 | | -- |

HAZARD STATEMENT

Cadmium compounds accumulate in the body having a poisoning effect on the kidneys. Absorption is by ingestion, or inhalation of fumes or mist. Long-term exposure can give rise to lung cancer. This solution is also irritating to skin and eyes. May cause sensitisation by skin contact. Long-term exposure to 1,2. Diaminoethane may give rise to occupational asthma. It can also cause irritant and/or allergic dermatitis.

TOXICITY DATA

Acute exposure to cadmium has resulted in flu-like symptoms, hoarseness, coughing, runny nose, etc. More serious symptoms have included emphysema, pulmonary oedema and serious damage to functioning of kidneys. This is the most severe effect of cadmium absorption leading to formation of kidney stones and in some cases, renal failure and death. With respect to 1,2 Diaminoethane, the HSE can no longer identify a level which is both safe and practically achievable. The OES has, therefore, been withdrawn. Employers should determine their own working practices and endorse standards for control so that repeated exposure does not cause ill health. An MEL was also considered inappropriate given that few people are exposed to the concentrated substance and levels of exposure are negligible.

FIRST AID

INHALATION Remove to fresh air and quiet environment. In severe cases seek medical advice.
SKIN CONTACT Remove contaminated clothing and washes all affected areas of skin with water for at least 10 minutes. In severe cases seek medical advice.
EYE CONTACT Rinse immediately with plenty of water and seek medical advice.
INGESTION Rinse mouth liberally with water. Drink plenty of water or milk. In severe cases seek medical advice.

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(CONTD)**

OTHER Biological monitoring should be carried out to determine level of exposure.

FIRE & EXPLOSION MEASURES

| | |
|---------------------------------------|---|
| SUITABLE EXTINGUISHING MEDIA | N / A |
| UNSUITABLE EXTINGUISHING MEDIA | N / A |
| POSSIBLE EXPOSURE HAZARDS | May evolve toxic fumes of Cadmium Oxide in fire |
| PROTECTIVE EQUIPMENT FOR FIREFIGHTERS | Self-contained breathing apparatus |

SPILL OR LEAKAGE PROCEDURES

Always soak up with absorbent material (Sand "etc") and dispose of via a licensed disposal contractor.

HANDLING & 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 labelled.

EXPOSURE CONTROL / PERSONAL PROTECTION

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

PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: **CLEAR COLOURLESS LIQUID**

| | | |
|---------------------------|------------------------------|----------------------------------|
| Boiling point : 100 °C | Freezing point : 0 °C | Specific Gravity: 1.16 |
| Flash Point: N / A | PH : 10.9 | Solubility in Water: Infinite |

STABILITY & RE - ACTIVITY

| | |
|----------------------------------|--|
| STABILITY | Stable at ambient temperature. |
| MATERIALS TO AVOID | N / A |
| HAZARDOUS DECOMPOSITION PRODUCTS | May evolve toxic fumes of Cadmium Oxide in fire. |

DISPOSAL CONSIDERATIONS

To local Authority regulations or via a licensed disposal operator

ECOLOGICAL INFORMATION

All cadmium containing products, particularly water-soluble solutions are of particular danger to the environment, and all care must be exercised in containing them whilst they are in use or stored.

**COMMERCIAL NAME: DALIC CADMIUM 2023 PLATING SOLUTION DPS 6123
(CONTD)****TRANSPORT INFORMATION**

UN NO.: 2570 Class: 6.1 PACKING GROUP: III I.M.D.G.:
ADR / RID: ICAO / IATA: 619 (100 kg) And 619 (200 kg)

REGULATORY INFORMATION

LABEL TOXIC (Skull and Crossbones)
CLASSIFICATION TOXIC

RISK PHASES

May cause cancer by inhalation. Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.

SAFETY PHASES

Avoid exposure obtain special instruction before use, If you feel unwell, seek medical advice (shows label where possible). In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Do not breathe mist or spray. Wear suitable protective clothing and eye / face protection.

CHEMICALS TO BE NAMED

Contains Cadmium EDA Complex & 1,2 Diaminoethane

OTHER INFORMATION

Store away from heat & light. Do not freeze

EVERY ENDEAVOR HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED IN THIS MSDS 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 & SAFETY ONLY. ITS CONTENTS SHOULD NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF **Dalic Australasia Pty Ltd.**

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Revised date 01.12.2005

Jan L Mackenzie

Authorised by: Ian L Mackenzie Signed