

**'DOCK/
CHEMICALS**

SEMICONDUCTORS DECISION

$C_{13}H_{33}N_4Ta$

Tantalum Precursor for CVD and ALD
application processes

'MO-CVD

BP: 98 °C / 208.4 °F

'TBTEMATa - TRIS(ETHYLMETHYLAMIDO)(TERT-BUTYLIMIDO)TANTALUM(V)

PRODUCT DATASHEET

'TBTEMATa - TRIS(ETHYLMETHYLAMIDO)(TERT-BUTYLIMIDO)TANTALUM(V)

Identification

| | |
|----------------------|--------------------|
| CAS-No: | 511292-99-2 |
| EC-No: | n.r. |
| EG-Index-No.: | n.r. |
| Other name: | - |

'MO-CVD

PHYSICAL PROPERTIES

| | |
|------------------------|-------------------------|
| Vapor pressure: | n.a. |
| Density: | 1.323 g/cm ³ |
| Molweight: | 426.38 g/mol |
| Melting point: | n.a. |
| Boiling point : | 98 °C / 208.4 °F |

CHEMICAL PROPERTIES

| | |
|-------------------------|---|
| Stability: | Stable under recommended storage conditions |
| State of matter: | Liquid |

SAFETY & TRANSPORT

| | |
|--------------------------------|---------------------------|
| Toxicity: | n.a. |
| Explosion limit Vol%: | n.a. |
| Auto ignition temp. °C: | n.a. |
| ADR/RID | |
| ADR/RID-class: | 4.3 |
| UN-no: | 3398 |
| IMDG | |
| IMDG-class: | 4.3 |
| UN-no: | 3398 |
| ICAO/IATA | |
| ICAO/IATA-class: | 4.3 |
| UN-no: | 3398 – AIRFREIGHT ALLOWED |

For further details please refer to Safety Data Sheet (SDS)

PACKAGING & STANDARD FILLING VOLUMES

| | |
|-----------------------------------|----------------------|
| TBTEMATa.100.DOCK/10.150 | 100g / 150ccm cyl. |
| TBTEMATa.450.DOCK/10.400 | 450g / 400ccm cyl. |
| TBTEMATa.700.DOCK/10.600 | 700g / 600ccm cyl. |
| TBTEMATa.1150.DOCK/10.1000 | 1150g / 1000ccm cyl. |
| TBTEMATa.3500.DOCK/10.3000 | 3500g / 3000ccm cyl. |

QUALITY STANDARDS

EG Electronic Grade

VAPOR PRESSURE CURVE

n.a.

APPLICATION

ALD and CVD precursor

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PRODUCT DATASHEET

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