

**SAFETY DATA SHEET**  
According to Regulation (EC) No. 1907/2006

## PERKACIT TDEC

### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product label name</b>	Tellurium diethyldithiocarbamate
<b>Supplier</b>	Performance Additives Italy S.p.A. Zona Industriale "A" 86039 Termoli (CB) Italy Tel. +39 0875 58941
<b>Emergency telephone</b>	+49 40 30 299 - 0 (only during office hours, Behn Meyer Europe GmbH, Ballindamm 1, D-20095 Hamburg)
<b>Intended use</b>	Vulcanisation accelerator

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives.

Information on hazardous ingredients

**Chemical description** Tellurium diethyldithiocarbamate

**Composition / information on ingredients**

Number	% w/w	CAS-number	Chemical name
1	> 96	20941-65-5	Tellurium diethyldithiocarbamate
2	1 - 2	8042-47-5	White mineral oil (petroleum)

  

Number	EC-number	Annex-1 number	Symbol(s) (EU classification)	Risk-phrase(s)
1	244-121-9		none	none
2	232-455-8		none	none

**Other information** Formula: C<sub>20</sub>H<sub>40</sub>N<sub>4</sub>S<sub>8</sub>Te.

### 3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive.

### 4. FIRST AID MEASURES

<b>Symptoms and effects</b>	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. May cause alcohol intolerance.
<b>First aid</b>	
<b>General</b>	Do not drink alcohol after exposure.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin</b>	Wash immediately with soap and water.
<b>Eye</b>	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>	Rinse mouth, give water to drink.
<b>Advice to physician</b>	No specific recommendations.

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	waterspray, water mist, foam, dry chemical powder.
<b>Unsuitable extinguishing media</b>	waterjet.
<b>Special exposure hazards</b>	none known.
<b>Hazardous decomposition / combustion products</b>	Emits toxic fumes under fire conditions: hydrogen cyanide (HCN), sulphur dioxide (SO <sub>2</sub> ), nitrous gases (NO <sub>x</sub> ).
<b>Protective equipment</b>	Wear self contained breathing apparatus.
<b>Other information</b>	Do not allow run-off from fire fighting to enter drains or water courses.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see Section 8. Avoid dust generation.
<b>Environmental precautions</b>	Do not flush into public water courses.
<b>Methods for cleaning up</b>	Collect as much as possible in a clean container for (preferable) reuse or disposal.

### 7. HANDLING AND STORAGE

<b>Handling</b>	The usual precautions for handling chemicals should be observed.
<b>Fire and explosion prevention</b>	No specific recommendations.
<b>Storage requirements</b>	Store in a dry and cool place.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls** No specific recommendations.

**Exposure limits**

**Name**

Tellurium diethyldithiocarbamate	OES-TWA	0.1 mg/m <sup>3</sup> (as Te)
White mineral oil (petroleum)	OES-TWA	5.0 mg/m <sup>3</sup>

**Personal protection**

<b>Respiratory</b>	No specific recommendations.
<b>Hand</b>	No specific recommendations.
<b>Eye</b>	safety goggles recommended.
<b>Skin and body</b>	No specific recommendations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	powder, oil coated
<b>Colour</b>	yellow, light orange
<b>Odour</b>	characteristic
<b>Boiling point/range</b>	not determined
<b>Melting point/range</b>	min. 108 °C
<b>Flash point</b>	not determined
<b>Flammability</b>	not determined
<b>Autoignition temperature</b>	not determined
<b>Explosive properties</b>	not determined
<b>Explosion limits</b>	not determined
<b>Oxidising properties</b>	not applicable
<b>Vapour pressure</b>	Negligible at room temperatures
<b>Density</b>	1480 kg/m <sup>3</sup> (20 °C)
<b>Bulk density</b>	320-360 kg/m <sup>3</sup> (20 °C)
<b>Solubility in water</b>	Practically insoluble
<b>Solubility in other solvents</b>	aromatic solvents, CS <sub>2</sub>
<b>pH value</b>	not determined
<b>Partition coefficient</b>	not determined
<b>n-octanol/water</b>	
<b>Relative vapour density (air=1)</b>	not applicable
<b>Viscosity</b>	not applicable

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	Decomposition begins at 112 to 122 °C.
<b>Materials to avoid</b>	No specific recommendations.
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

### 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation as such available. The following data are applicable to the ingredient(s) listed below.

<b>Name</b>	Tellurium diethyldithiocarbamate
<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat: >5000 mg/kg.
<b>Dermal LD50</b>	rabbit: >2000 mg/kg.
<b>Inhalation LC50</b>	rat: > 0.51 mg/l (max. attainable concentration).
<b>Irritation</b>	
<b>Skin</b>	rabbit: Practically non-irritating.
<b>Eye</b>	rabbit: Minimally irritating.
<b>Sensitization</b>	Not sensitizing (guinea pig).
<b>Genotoxicity</b>	in vitro Ames test: Not mutagenic. in vitro chromosome aberration in mouse lymphoma cells: mutagenic (Lit.). Sister Chromatid Exchange in CHO cells: Not mutagenic (Lit.).

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in vivo  
Sex-Linked Recessive Lethal Test (*Drosophila melanogaster*): Not mutagenic (Lit.).  
**Other toxicological information** Oral carcinogenicity test (2-year feeding study, rat): not carcinogenic (Lit.).

### 12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the substance as such.

### 13. DISPOSAL CONSIDERATIONS

**Product** Avoid discharge into the environment.  
Small quantities: According to local regulations.  
Large quantities: Consult Flexsys for special advice.  
**Contaminated packaging** According to local regulations.  
**Other information** Waste code number: Please refer to your specific industry in the European Waste Catalogue.

### 14. TRANSPORT INFORMATION

*Land transport*

<b>ADR class</b>	not restricted	<b>ADR/RID packing group</b>	not relevant
<b>RID class</b>	not restricted	<b>Substance Identification No.</b>	not relevant
<b>Hazard Identification No.</b>	not relevant	<b>UN number</b>	none
<b>TREM-Card</b>	not relevant		
<b>Proper Shipping Name</b>	not relevant		

*Sea transport (IMDG-code / IMO)*

<b>IMO/IMDG code</b>	not restricted	<b>Class</b>	not restricted
<b>Packing group</b>	not relevant	<b>UN number</b>	none
<b>EMS</b>	not relevant	<b>Subsidiary Risk</b>	no
<b>Proper Shipping Name</b>	not relevant		

*Air transport (ICAO-TI / IATA-DGR)*

<b>ICAO-TI/IATA-DGR</b>		<b>UN number</b>	none
<b>Class</b>	not restricted	<b>Packing group</b>	not relevant
<b>Proper Shipping Name</b>	not relevant		

### 15. REGULATORY INFORMATION

**Chemical description** Tellurium diethyldithiocarbamate

Labelling according to EC directives

<b>EC-number</b>	See section 3
<b>Classification based on</b>	Tests
<b>Symbol(s) (EU classification)</b>	none
<b>R(isk) phrase(s) (EU classification)</b>	none
<b>S(afety) phrase(s) (EU classification)</b>	none
<b>German Water Hazard Class (WGK)</b>	2 (VwVwS Anhang 3)

### 16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

#### R-phrase information

Chemical name	Risk-phrase(s)	
Tellurium diethyldithiocarbamate	none	none
White mineral oil (petroleum)	none	none



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### History

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