

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

PERKACIT TDEC

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

Product label name	Tellurium diethyldithiocarbamate
Supplier	Performance Additives Italy S.p.A. Zona Industriale "A" 86039 Termoli (CB) Italy Tel. +39 0875 58941
Emergency telephone	+49 40 30 299 - 0 (only during office hours, Behn Meyer Europe GmbH, Ballindamm 1, D-20095 Hamburg)
Intended use	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: C₂₀H₄₀N₄S₈Te.

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling	The usual precautions for handling chemicals should be observed.
Fire and explosion prevention	No specific recommendations.
Storage requirements	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 ³ (as Te)
White mineral oil (petroleum)	OES-TWA	5.0 mg/m ³

Personal protection

Respiratory	No specific recommendations.
Hand	No specific recommendations.
Eye	safety goggles recommended.
Skin and body	No specific recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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

Name	Tellurium diethyldithiocarbamate
Acute toxicity	
Oral LD50	rat: >5000 mg/kg.
Dermal LD50	rabbit: >2000 mg/kg.
Inhalation LC50	rat: > 0.51 mg/l (max. attainable concentration).
Irritation	
Skin	rabbit: Practically non-irritating.
Eye	rabbit: Minimally irritating.
Sensitization	Not sensitizing (guinea pig).
Genotoxicity	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

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

Sea transport (IMDG-code / IMO)

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

Air transport (ICAO-TI / IATA-DGR)

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

15. REGULATORY INFORMATION

Chemical description Tellurium diethyldithiocarbamate

Labelling according to EC directives

EC-number	See section 3
Classification based on	Tests
Symbol(s) (EU classification)	none
R(isk) phrase(s) (EU classification)	none
S(afety) phrase(s) (EU classification)	none
German Water Hazard Class (WGK)	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

Date of printing/ pdf file generated	13.05.2011
Revision	2.00
Composed by	hse@behn Meyer.de
Changes were made in section	1, 16