

## PERKACIT ZBEC pdr and pdr-d

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

<b>Product label name</b>	Zinc dibenzylidithiocarbamate
<b>Supplier / manufacturer</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>	Vulcanization 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** Zinc dibenzylidithiocarbamate

#### Composition / information on ingredients

Number	% w/w	CAS-Number	Chemical name		
Number	EC-number	Annex-1 number	Symbols (EU Classification)	Risk-phrases	
1	> 95	14726-36-4	Zinc dibenzylidithiocarbamate		
1	238-778-0		N	R50/53	
		<b>GHS classification</b>	<b>Hazard classes</b>		



Aquatic environment, acute 1,  
Aquatic environment, chronic 1 H400, H410

**Other Information** Formula: C<sub>30</sub>H<sub>28</sub>N<sub>2</sub>S<sub>4</sub>Zn.

### 3. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

### 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.

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### 5. FIRE-FIGHTING MEASURES

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<b>Extinguishing media</b>	Waterspray, water mist, foam, dry chemical powder.
<b>Unsuitable extinguishing media</b>	Water jet.
<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.

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### 6. ACCIDENTAL RELEASE MEASURES

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<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.

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### 7. HANDLING AND STORAGE

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<b>Handling</b>	The usual precautions for handling chemicals should be observed.
<b>Fire and explosion prevention</b>	Avoid dust accumulation. Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition. Kst: 168 bar.m/s. Maximum corrected explosion pressure: 7.0 bar.
<b>Storage requirements</b>	Store in a dry and cool place.

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### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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<b>Engineering controls</b>	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
<b>Exposure limits</b>	
<b>Name</b>	
<b>Zinc dibenzylthiocarbamate</b>	WEL (TWA): 4 mg/m <sup>3</sup> (respirable dust) OES-TWA: 10.0 mg/m <sup>3</sup> (inhalable dust) OES-TWA: 4.0 mg/m <sup>3</sup> (respirable dust)
<b>Personal protection</b>	
<b>Respiratory</b>	No specific recommendations.
<b>Hand</b>	No specific recommendations.
<b>Eye</b>	No specific recommendations.
<b>Skin</b>	No specific recommendations.
<b>Other Information</b>	The usual precautions for handling chemicals should be observed.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Dedusted powder, powder, granules
<b>Colour</b>	white, light cream
<b>Odour</b>	characteristic
<b>Boiling point / range</b>	not determined
<b>Melting point / range</b>	min. 178 °C
<b>Flash point</b>	not determined
<b>Flammability</b>	not determined
<b>Autoignition temperature</b>	480 °C
<b>Explosive properties</b>	dust explosion hazard

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<b>Explosion limits</b>	Lower Explosion Limit (LEL): 40 g/m <sup>3</sup> . Minimum ignition energy: =< 3 mJ.
<b>Oxidising properties</b>	not applicable
<b>Vapour pressure</b>	negligible at room temperatures
<b>Density</b>	1420 kg/m <sup>3</sup> (20 °C)
<b>Bulk density</b>	210-250 kg/m <sup>3</sup>
<b>Solubility in water</b>	practically insoluble
<b>Solubility in other solvents</b>	acetone, chlorinated hydrocarbons
<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 relevant

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>Name</b>	Zinc dibenzylidithiocarbamate
<b>Acute toxicity</b>	
<b>Oral LD50</b>	rat: > 5000 mg/kg.
<b>Irritation</b>	
<b>Skin</b>	practically non-irritating
<b>Eye</b>	practically non irritating
<b>Genotoxicity</b>	not mutagenic (Ames test)

## 12. ECOLOGICAL INFORMATION

<b>Name</b>	Zinc dibenzylidithiocarbamate
<b>Ecotoxicity</b>	
<b>Fish</b>	<b>96h-LC50</b> (Danio rerio): >10 mg/l.

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Performance Additives for special advice.
<b>Contaminated packaging</b>	According to local regulations.
<b>Other information</b>	Water code number: Please refer to your specific industry in the European Waste Catalogue.

## 14. TRANSPORT INFORMATION

<b>Land transport</b>			
<b>ADR class</b>	9	<b>ADR / RID packing group</b>	III
<b>RID class</b>	9	<b>Substance Identification No.</b>	3077
<b>Hazard Identification No.</b>	90	<b>UN number</b>	3077
<b>TREM-Card</b>	http://www.unece.		

## PERKACIT ZBEC pdr and pdr-d

	org/trans/danger/ publi/adr/adr_ling uistic_e.htm
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s. (zinc dibenzylidithiocarbamate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc dibenzylidithiocarbamate)
<b>Sea transport (IMDG-code / IMO)</b>	
<b>IMO / IMDG code</b>	<b>Class</b> 9
<b>Packing group</b> III	<b>UN number</b> 3077
<b>EMS</b> F-A, S-F	<b>Subsidiary Risk</b>
<b>Marine pollutant</b> yes	
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s. (zinc dibenzylidithiocarbamate)
<b>Air transport (ICAO-TI / IATA-DGR)</b>	
<b>ICAO-TI/IATA-DGR</b>	<b>UN number</b> 3077
<b>Class</b> 9	<b>Packing group</b> III
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s. (zinc dibenzylidithiocarbamate)

## 15. REGULATORY INFORMATION

**Chemical description** Zinc dibenzylidithiocarbamate

Labelling according to EC directives

**EC-number** see section 3

**Classification based on** Tests



<b>Symbols (EU classification)</b>	DANGEROUS FOR THE ENVIRONMENT (N)
<b>R(isk) phrases (EU classification)</b>	R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>S(afety) phrases (EU classification)</b>	S 60 This material and its container must be disposed of as hazardous waste S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets
<b>Other information</b>	GHS classification Pictogram(s) GHS09 Signal words & Hazard statements: WARNING H410: Very toxic to aquatic life with long lasting effects. Precautionary statements: P273: Avoid release to the environment. P391: Collect spillage. (??to be removed??) P501: Dispose of contents/container to a hazardous waste facility in accordance with local/national regulation.
<b>German Water Hazard Class (WGK)</b>	2 (VwVwS Anhang 3, Nr. 6623)

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### **16. OTHER INFORMATION**

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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-pharse information**

##### **Chemical name**

Zinc dibenzylidithiocarbamate

##### **Risk-phrases**

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

H400, H410

#### **History**

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