

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	PVI
Manufacturer	TIANJIN EASTRICHON RUBBER ADDITIVES CO., LTD.
Chemical name	N- (Cyclohexylthio) phthalimide
Synonym	Antiscorching Agent CTP; N-Cyclohexy(thio)phthalimide; N-(Cyclohexylthio)-phthalimide
Material uses	ANTISCORCHING AGENT
Product type	Powder; Oiled Powder; Granule

## SECTION 2. HAZARDS IDENTIFICATION

### Hazard Information

Emergency Overview	WARNING! Combustible dust - explosion potential. Keep away from heat, sparks, and flame. This material is irritating to skin, eyes and respiratory tract.
Eye Contact	Causes eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.
Skin Contact	May cause an allergic skin reaction. May cause a rash and itching of the skin. May cause skin defatting with prolonged exposure.
Inhalation	Causes moderate respiratory irritation. Irritating vapor causes immediate distress. Irritates mucous membranes. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.
Ingestion	May be harmful if large amounts are swallowed. May cause liver and kidney damage.

## SECTION 3. Composition/information on ingredients

Substance/mixture	Substance	
Ingredient name	CAS number	% by weight
N-(Cyclohexylthio)phthalimide	17796-82-6	> 97

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4. First aid measures

Description of necessary first aid measures

In Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
On Skin	Remove contaminated clothing. wash skin with water, using soap if available. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.
Inhaled	Remove person to fresh air. If not breathing, give artificial

	respiration. If breathing is difficult, get immediate medical attention.
Swallowed	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
Notes To Physician	Provide symptomatic/supportive care as necessary. Treatment based on sound judgment of physician and individual reactions of patient. Observe for signs of respiratory distress.

### **SECTION 5. Fire-fighting measures**

Unsuitable extinguishing media	No specific recommendations
Extinguishing Media	Waterspray, water mist, foam, dry chemical powder, CO2
Special Exposure Hazards	Emits toxic fumes under fire conditions
Hazardous decomposition/ Combustion products	carbon monoxide(CO), Sulfur oxides(SOx), nitrous gases(NOx)
Protective Equipment	Wear self contained breathing apparatus.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

### **SECTION 6. Accidental release measures**

Spill Procedures	For personal protection see Section 8.
Environmental precautions	Avoid discharge into the environment.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal.

### **SECTION 7. Handling and storage**

Handling	Prevent skin contact and contamination of clothing. Avoid dust generation. Avoid breathing dust. Wash thoroughly with soap and water after handling.
Storage	Store in a dry and cool place.
Other information	Wash contaminated skin promptly with plenty of soap and water. Launder all contaminated clothing and clean protective equipment before reuse.

### **SECTION 8. Exposure controls/personal protection**

Eye Protection	Wear safety goggles.
Skin Protection	Wear suitable protective clothing.

Gloves	Wear chemically resistant gloves with long sleeves to prevent skin contact.
Respiratory Protection	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Ventilation	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
Airborne Exposure Limits	No exposure limit has been established. Shandong Yanggu Huatai Chemical Co., Ltd. has adopted an internal OEL. Skin absorption may contribute to the overall exposure..

### **SECTION 9. Physical and chemical properties**

Appearance	Dedusted powder or granular
Color	White
Odor	Penetrant, unpleasant
pH	Not available
Melting point	87°C (initial) 89-94°C (final)
Boiling point	Not Determined
Flash point	177°C
Flammability	Not (in) flammable (solid substance)
Autoignition temperature	Approx. 300°C (Godbert-Greenwald)
Explosive properties	Dust explosion hazard
Explosion limits	Lower explosion limits (LEL): 30g/m <sup>3</sup> Minimum ignition energy (MIE): < 2mj
Oxidizing properties	Not determined
Density	1330kg/m <sup>3</sup> (25°C)
Bulk Density	700kg/m <sup>3</sup> (compacted, 25°C)
Vapor pressure	Negligible at room temperatures
Solubility	Soluble in Acetone Ethanol Benzene Naphtha
Solubility in water	INSOLUBLE (0.022kg/m <sup>3</sup> (25°C))
Viscosity	Not applicable
Other Data	Ash content = 0.3% max.
Molecular	261.34
Molecular Formula	C <sub>14</sub> H <sub>15</sub> O <sub>2</sub> SN

### **SECTION 10. Stability and reactivity**

Chemical Stability	Stable under recommended storage and handling conditions (see section 7). Conditions to avoid Heating > 100°C: May catch fire.
Materials to Avoid	No specific recommendations

Hazardous Decomposition Products Thermal decomposition products: carbon monoxide(CO),nitrous gases(NOx),Sulfur Oxides(Sox)

## SECTION 11. Toxicological information

### Target Organs

Acute Oral LD50 (mg/kg)	2600 mg/kg
Acute Dermal LD50 (mg/kg)	>5010 mg/kg
Acute Inhalation LC50 (mg/l)	Not Determined
Principle Routes of Exposure	Not Determined

Ingestion	Illness may occur after a single swallowing of relatively large quantities of this material
Skin Contact	May cause an allergic skin reaction. Skin contact with molten material may result in a thermal burn. Mild Skin Irritation (after prolonged or repeated contact): sign/symptoms can include redness, swelling, and itching.
Inhalation	Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing
Eye Contact:	Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing
Aggravated Conditions:	Dermal ailments. Blood disorders. This material or its emissions may cause an allergic or sensitization reaction and thereby aggravate systemic disease. Liver disorders
Carcinogenicity Comment:	This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA. Carcinogenic: Category 3
Other:	Decomposition products and fumes from vulcanization and cross-linking may cause eye, skin and respiratory sensitization. May be a skin sensitizer
Primary Irritation Effect:	Not determined
Carcinogenicity:	Negative in standard tests using bacteria and yeast cells
Genotoxicity:	None
Reproductive/Developmental Toxicity:	None

## SECTION 12. Ecological information

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Acute Fish Toxicity	96h-LC50(Lepomis macrochirus) 1.2mg/l 96h-LC50(Oncorhynchus mykiss) 0.41mg/l 96h-LC50(Pimephales promelas) 0.42mg/l
Acute daphnia Toxicity	48h -EC50(Daphnia magna) 32mg/l
Acute Algae Toxicity	96h-EC50(Selenastrum, capricornutum): 21mg/l
Chemical Fate Information	Bio Concentration Factor(BCF):130(calculated)
Other Information	Not Available

### **SECTION 13. Disposal considerations**

Disposal of Waste Method	This product is not regarded as hazardous waste. Dispose in accordance with local regulations. Incineration recommended in approved incinerator according to federal, state, and local regulations.
Contaminated Packaging	If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Do NOT reuse container.

### **SECTION 14. Transport information**

DOT:DOT Status	Not Regulated
DOT Shipping Name	None
DOT Reportable Quantity (lbs)	None
ICAO/IATA:Status	None
Proper Shipping Name	None
UN/NA Number	None
IMDG:Status	Not Regulated
Proper Shipping Name	None
TDG (Canada): Status	Not determined
Proper Shipping Name	None

### **SECTION 15. Regulatory information**

Worldwide Inventory Status	
TSCA (USA)	Listed
Canadian DSL	Listed
Canadian NDSL	N/A
EINECS/ELINCS (Europe)	Listed
Japanese Inventory (ENCS)	Listed
Korean Chemical Inventory (ECL)	Listed
Australian Chemical Inventories (AICS)	Listed

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New Zealand (NZ)	Listed
Phillipines (PICCS) Inventory	Listed
China (CLECS)	Listed
US Regulatory Rules	
SARA Section 302	Not Applicable
SARA 311/312 Hazard Categories	Immediate
SARA 313 Chemical	2-Mercaptobenzothiazole
RCRA Status	Not a RCRA waste.
Other Regulations	
California Proposition 65	NONE
NONE	N/A
Pennsylvania Right to Know List	N/A
Florida Right to Know	N/A
Minnesota Right to Know	N/A
MA Right to Know Law	N/A
FDA Status 21 CFR	Not Regulated For Use in 21 CFR.
Canadian Regulations	
WHMIS Hazard Class	D2B TOXIC MATERIALS / Materials Causing Other Toxic Effects
NPRI	N/A

## SECTION 16. Other information

The following has been revised since the last issue of this MSDS:

Nothing has been revised.

### Additional Information

The Additive package for this product may contain some of the following at levels up to 1%: Butyl Oleate CAS# 142-77-8. White Mineral Oil CAS# 8042-47-5. Methylcellulose CAS# 9004-67-5.

### Important Note

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