

Vibiplast's Pre-dispersed Rubber Chemicals (Polymer-bounds) have now become synonymous with quality, reliability and high performance.

Our Polymer-bounds, completely produced in Italy, are known, appreciated and distributed in over 35 different European and non-European countries. Specialized technicians take care of the entire production process, ensuring constantly top quality standards.

VIBIPLAST serves the most famous and well-regarded producers of compounds and rubber articles at international level.

Visit our website to find out the full range of products and discover the nearest distributor in your area.

*The perfect partner
for your rubber*

Rubber Chemicals Product Range



 **Delta gran**[®]
MADE IN ITALY BY VIBIPLAST SINCE 2007

Products features benefit:

Our Pre-dispersed Rubber Chemicals are composed of a special multi polymer matrix of low viscosity and dispersing agents. The majors benefits in using our Polymer-bounds compared to the classic additives are:

- Prevent or avoid the creation of holes and cracks on the cylinder mixer during the additives phase.
- Improved dispersion during the mixing process.
- Faster and more efficient mixing, resulting in increased productivity, reduced production time and costs.
- Better handling due to a more efficient and easy dosing of the granules.
- Higher repetitiveness of vulcanization with significant reduction of lots out of specification.
- Reduced atmospheric dustiness on production lines with relevant improvement of health and working conditions of operators.
- No extra costs for the disposal of packaging.
- The Vibiplast Polymer-Bound packaging, having no residual dust, but only traces of talc, can be disposed of as non-hazardous waste.

Vibiplast Srl

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Variety and customization:

Blend of Rubber Chemicals Pre-dispersed. Special needs can be satisfied creating mixtures of Multi-component Rubber Chemicals. A complete Range of Chemicals for the rubber industry is always available in dedicated warehouses, managed with a First In First Out system. Vibiplast Product portfolio also includes Rubber Chemicals in powder, silica, resins, silane, waxes and a wide range of process aids.



VIBIPLAST

 **Deltagran®**
MADE IN ITALY BY VIBIPLAST



Be free from regulation's limits!

After accurate studies, Vibiplast is pleased to announce that, in accordance with the Regulation (CE) 1272/2008 (CLP) and the Regulation ADR, RID, IMDG and IATA, **the following products are now considered exempt from classification and transport information**, with a lower hazard class and identification on the label:

- Deltagran
CBS 80 GE F 140
- Deltagran
MBTS 75 GE F 140
- Deltagran
MBTS 80 GE F 140
- Deltagran
PVI 80 GE F 140
- Deltagran
MMBI 70 GE F 140
- Deltagran
ZDBC 80 GE F 140
- Deltagran
TBBS 80 GE F 140

■ **Tested & Certified**
*by laboratories
recognized
by the Minister
of Health.*



What does it mean?

- ✓ **MSDS Classification**
- ✓ **Transportation**
- ✓ **Storage**
- ✓ **Packaging**
- ✓ **Handling of the products**
- ✓ **Waste disposal**

www.vibiplast.it

Proudly designed
& produced in Italy



Rubber Chemicals Product Range

Metal Oxides

Chemical description	Raw Material	Polymerbound		NA Free	Note
Active zinc oxide	Acti.Z	ZnO AKTIV 60 GE F 140		✓	BET 50 m ² / g
		ZnO AKTIV 80 GE F 140			
		ZnO AKTIV 80 GE F 140 DAX			
Zinc carbonate	ZYNKO3	Zn TRASP 60 GE F 140		✓	Trasparent
Zinc oxide	ZnO Gold Seal	ZnO 80 GE F 250		✓	Gold Seal
		ZnO 80 GE F 250 DAX			
Magnesium oxide	-	MGO 60 GE P 250		✓	-
Antimony trioxyde	-	TRIOXIDE 85 GE F 250		✓	-
		TRIOXIDE 90 GE F 250			
Zinc Borate	-	Zn-BORATE 75 GNR		✓	-
Titanium dioxide	-	TiO ₂ A 80 GE		✓	(Anatase)

Retarders

Chemical description	Raw Material	Polymerbound		NA Free	Note
PVI	PVI op	PVI 50 GE F 140		✓	CTP
		PVI 80 GE F 140	✓		
		PVI 80 GE F 140 DAX			
Retarder	-	RETARDER EC 80 GE F 250		✓	-
Retarder	-	RETARDER EV 80 GE F 140		✓	-

Accelerators

Guanidines

Chemical description	Raw Material	Polymerbound		NA Free	Note
1,3-diphenyl-guanidine	DPG op	DPG 75 GE F 140		✓	-
		DPG 80 GE F 140			
		DPG 80 GE F 140 DAX			
		DPG 80 GEP 140			

Thiazoles

Chemical description	Raw Material	Polymerbound		NA Free	Note
2-mercapto-benzothiazole	MBT op	MBT 75 GE F 140		✓	-
		MBT 80 GE F 140			
		MBT 80 GE F 140 DAX			
		MBT 80 GEP 140			
Di(benzothiazol-2-yl) disulfide	MBTS op	MBTS 70 GE F 140		✓	GREEN or NATURAL
		MBTS 75 GE F 140	✓		
		MBTS 75 GE F 140 DAX			
		MBTS 80 GE F 140	✓		
		MBTS 80 GE F 140 DAX			
		MBTS 80 GEP 140			
Zinc-2-mercapto-benzothiazole	ZMBT op	ZMBT 80 GSF 140		✓	-
		ZMBT 80 GE F 140			

Op: Oiled Powder pd: Powder Gr: Granuls Lq: Liquid DL: Dry-liquid DAX: Products specifically designed for automatic dosing systems.

Rubber Chemicals Product Range

Sulphonamides

Chemical description	Raw Material	Polymerbound		NA Free	Note
<i>N</i> -cyclohexyl-2-benzothiazyl sulfenamide	CBS op	CBS 80 GE F 140	✓	✓	BLUE or NATURAL
		CBS 80 GE F 140 DAX			
		CBS 80 GEP 140			
		CBS 80 GSF 140			
<i>N,N</i> -dicyclohexyl- 2-benzothiazyl sulfenamide	DCBS op	DCBS 80 GE F 140		Safe	-
<i>N</i> -tert-butylbenzothiazyl sulfenamide	TBBS op	TBBS 75 GE F 140		✓	-
		TBBS 80 GE F 140	✓		
		TBBS 80 GE F 140 DAX			
		TBBS 80 GSF 140			

Thioureas

Chemical description	Raw Material	Polymerbound		NA Free	Note
1,3-diethyl thiourea	-	DETU 80 GE F 140		✓	-
		DETU 80 GEP 140			
Imidazolidine-2-thione (1,3 - Ethylenethiourea)	-	ETU 80 GE		✓	-

Thiurames

Chemical description	Raw Material	Polymerbound		NA Free	Note
<i>Dipentamethylene thiuram hexasulfide</i>	DPTT op (DPTH)	DPTH 70 GE F 140		-	-
		DPTH 75 GE F 140			
		DPTT 70 GE F 140			
		DPTT 75 GE F 140			
<i>Dimethyl diphenyl thiuram disulfide</i>	MPTD op	MPTD 80 GE F 140		-	DDTS
<i>Tetraethyl thiuram disulfide</i>	TETD op	TETD 75 GE F 140		-	-
<i>Tetramethyl thiuram monosulphide</i>	TMTM op	TMTM 75 GE F 140		-	-
		TMTM 75 GE F 140 DAX			
		TMTM 80 GE F 140			
		TMTM 80 GE F 140 DAX			
<i>Tetramethyl thiuram disulphide</i>	TMTD op	TMTD 70 GE F 140		-	ORANGE or NATURAL
		TMTD 70 GEP 140			
		TMTD 80 GE F 140			
		TMTD 80 GE F 140 DAX			
		TMTD 80 GEP 140			
<i>Tetrabenzyl thiuram disulfide</i>	TBzTD op	TBzTD 70 GE F 140		Free & Safe	-
		TBzTD 70 GE F 140 DAX			
		TBzTD 70 GEP 140			
		TBzTD 80 GE F 140			

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Rubber Chemicals Product Range

Carbamates

Chemical description	Raw Material	Polymerbound		NA Free	Note
Zinc diethyl dithiocarbamate	ZDEC op	ZDEC 75 GE F 140		-	-
		ZDEC 75 GE F 140 DAX			
		ZDEC 80 GE F 140			
		ZDEC 80 GEP 140			
Zinc dibutyl dithiocarbamate	ZDBC op	ZDBC 75 GE F 140		-	-
		ZDBC 80 GE F 140	✓		
		ZDBC 80 GE F 140 DAX			
		ZDBC 80 GEP 140			
Zinc dimethyl dithiocarbamate	ZDMC op	ZDMC 75 GE F 140		-	-
		ZDMC 80 GE F 140			
		ZDMC 80 GE F 140 DAX			
		ZDMC 80 GEP 140			
Zinc dibenzyl dithiocarbamate	ZBEC op	ZBEC 70 GE F 140		Free & Safe	-
		ZBEC 70 GE F 140 DAX			
		ZBEC 80 GE F 140			
		ZBEC 80 GE F 140 DAX			
		ZBEC 80 GEP 140			
Zinc ethyl phenyl dithiocarbamate	ZEPC op	ZEPC 80 GE F 140		-	-
Tetrakis(diethyldithiocarbamato-S,S')tellurium	TDEC op	TDEC 75 GE F 140		-	-

Phosphates

Chemical description	Raw Material	Polymerbound		NA Free	Note
Zinc dialkyl dithiophosphate	ZDTP 70 DL	ZDTP 50 GE F 140		✓	BLUE or NATURAL
		ZDTP 50 GE F 140 DAX		✓	
Zinc dialkyl dithiophosphate	-	ZBOP 50 GE F 250		✓	BLUE or NATURAL

Antioxidants

Chemical description	Raw Material	Polymerbound		NA Free	Note
Octylated diphenylamine	OCD (ODPA)	-		✓	Flakes
Nickel bis(dibutylthiocarbamate)	NDBC op	-		Safe	-
2,6-di-tert-butyl-p-cresol	-	BHT 70 GE		✓	-
4 and 5-methyl-2-mercapto benzimidazole	MMB op (MMBI)	MMBI 50 GE F 140		✓	-
		MMBI 50 GE F 140 DAX			
		MMBI 70 GE F 140	✓		
		MMBI 70 GE F 140 DAX			
Zinc 4 and 5-methyl-2-mercapto benzimidazole	ZMMB op	ZMMB 50 GE F 140		✓	-
		ZMMB 70 GE F 140			
Bis[4-(2-phenyl-2-propyl)phenyl]amine (BPH)	N 445 pd	N 445 - 70 GE F 140		✓	-
2,2'-Methylenebis[6-tert-butyl-4-methylphenol]	22M46 pd	22M46 - 75 GE F 140		✓	-

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Rubber Chemicals Product Range

Vulcanizers

Chemical description	Raw Material	Polymerbound		NA Free	Note
<i>Di(morpholin-4-yl)disulphide</i>	DTDM cp	DTDM 80 GE F 140 DTDM 80 GE F 140 DAX DTDM 80 GEP 140		-	-
<i>1,1'-dithiobis[hexahydro-2H-azepin-2-one]</i>	CLD (DTDC)	CLD 80 GE		✓	-
Sulphur	Sulphur op	S 80 GE F 140 S 80 GE F 140 DAX S 80 GSF 250 Sulphur S 80 GE F 140 Sulphur S 80 GE F 140 DAX		✓	-
Insoluble Sulphur	HS OT 20	IS 60/75 GE F 140		✓	75% of sulfur, in which 60% is insoluble sulfur
Insoluble Sulphur		IS 90/65 GE F 140			65% of sulfur, in which 90% is insoluble sulfur

Cross-Linker

Chemical description	Raw Material	Polymerbound		NA Free	Note
<i>Triallyl Cyanurate</i>	TAC 70 DL	TAC 50 Special		-	-

Adhesion Promoter

Chemical description	Raw Material	Polymerbound		NA Free	Note
<i>Hexakis(methoxymethyl)melamine</i>	-	HMMM 50 GE F 140		✓	-

Resins

Trade name	Description	NA Free	Note
C 5 100 col. 5	<i>Tackifier, clear aliphatic hydrocarbon resin</i>	✓	-

Silanes

Trade name	Description	Note
Si 69/50	<i>Coupling agent on inert carrier</i>	Dry Liquid
Si 69/70		

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Rubber Chemicals Product Range

Antiozonant Wax

Trade name	Description	Note
ANTIOZONE AO 721	Antiozonant wax	-

Processing Aids

Trade name	Description	Note
DELTAGRAN 6	Zinc soaps of insaturated fatty acids	-
DELTAGRAN 16	Blend of fatty acids and Calcium soaps	-
DELTAGRAN 42	Blend of fatty acids, fatty esters and superior alcohols	-
DELTAGRAN 222	Blend of high molecular weight aliphatic fatty acid esters	-

FDA Products

Metal Oxides

Active zinc oxide	ZNO AKTIV 60 FDA ZNO AKTIV 80 FDA
Zinc carbonate	ZN TRASP 60 FDA
Zinc oxide	ZNO 80 FDA
Magnesium oxide	MGO 60 FDA
Titanium dioxide (Anatase)	TiO ₂ A 80 FDA

Guanidines

1,3-diphenyl-guanidine	DPG 75 FDA DPG 80 FDA
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Thiazoles

2-mercapto-benzothiazole	MBT 75 FDA MBT 80 FDA
Di(benzothiazol-2-yl) disulfide	MBTS 70 FDA MBTS 75 FDA MBTS 80 FDA
Zinc-2-mercapto-benzothiazole	ZMBT 80 FDA

Sulphonamides

N-cyclohexyl-2-benzothiazyl sulfenamide	CBS 80 FDA
N-tert-butylbenzothiazyl sulfenamide	TBBS 75 FDA TBBS 80 FDA

Thiurames

Dipentamethylene thiuram hexasulfide	DPTH 70 FDA DPTH 75 FDA
Tetraethyl thiuram disulfide	TETD 75 FDA
Tetramethyl thiuram monosulphide	TMTM 75 FDA TMTM 80 FDA
Tetramethyl thiuram disulphide	TMTD 70 FDA TMTD 80 FDA

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Rubber Chemicals Product Range

Carbamates

<i>Zinc diethyl dithiocarbamate</i>	ZDEC 75 FDA
	ZDEC 80 FDA
<i>Zinc dibutyl dithiocarbamate</i>	ZDBC 80 FDA
<i>Zinc dimethyl dithiocarbamate</i>	ZDMC 75 FDA
	ZDMC 80 FDA
<i>Zinc dibenzyl dithiocarbamate</i>	ZBEC 70 FDA
	ZBEC 80 FDA

Antioxidants

<i>Octylated diphenylamine</i>	OCD flakes
<i>2,2'-Methylenebis(6-tert-butyl-4-methylphenol)</i>	22M46 - 75 FDA

Vulcanizer

<i>Di(morpholin-4-yl)disulphide</i>	DTDM 80 FDA
<i>Sulphur</i>	S 80 FDA

Op: Oiled Powder **pd:** Powder **Gr:** Granuls **Lq:** Liquid **DL:** Dry-liquid **DAX:** Products specifically designed for automatic dosing systems.