

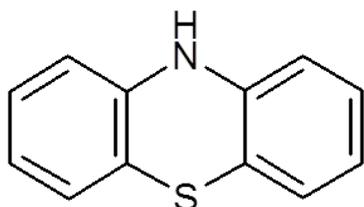


Product Data Sheet APF PDS PTZ POWDER – January 2024

PTZ Phenothiazine Powder

PTZ® Phenothiazine is an aromatic amine based product that exhibits broad activity as an inhibitor, antioxidant and shortstopping agent in a variety of diverse applications. The powder form offers optimal dissolution time.

Identification:



N°CAS: 92-84-2
SYNONYM: Dibenzothiazine
 Thiodiphenylamine

EMPIRICAL FORMULA: C₁₂H₉NS
MOLECULAR WEIGHT: 199.26 g/mol

Applications:

- In process inhibitor and stabilizer for manufacturing acrylic acids, esters and monomers (AA, AE, MMA, MAA,...), chloroprene monomer/neoprene polymer, styrene and other vinylic monomers
- Antioxidant in synthetic lubricants and oils, polyols for polyurethanes and polyester and vinyl ester resins
- Shortstopping agent for runaway polymerizations of acrylic acid, ester and monomer
- May be used as starting raw material to be chemically transformed by pharmaceutical industries. As such the product is sold as a technical grade and is not produced under cGMP conditions.

Specifications:

CHARACTERISTICS	LIMITS	METHODS
Appearance and color	Yellow powder	Visual
Assay	99.6% min	GC
Melting point	184°C min	Capillary
Particle size	<700 microns (98% min)	Sieve screens



- NOT SOLD IN EUROPE -



Physico Chemical Properties:

Boiling point.....371°C
Flash point (closed cup).....>110°C
Bulk density..... 0.75 g/cc

Solubility at 25°C (gms PTZ/100 ml Solvent)

Acetone.....19
Acrylic acid.....1.5
Ethanol.....1
Ethyl Acetate.....10
Ethyl amyl ketone.....15
Isopropanol.....1
Methyl Methacrylate.....6.5
Styrene Monomer.....2.5
NaOH (10% Soln).....Nil
Water.....Nil

Shelf Life:

The product is guaranteed for **36 months** from its manufacture date. The product should be stored in its original packaging in a cool dry environment and away from direct sunlight.

Packaging:

22.68 kg (50 lbs) paper bags
68 kg (150 lbs) fiber drums

Transport:

Regulated. Environmentally hazardous substance. For more details please consult our Safety Data Sheet.



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Regulatory Status:

PTZ Phenothiazine Powder **is not** covered by our EU REACH registration dossier.

PTZ Phenothiazine Powder is listed on the following chemical inventories: (TSCA) USA, AIIC (Australia), DSL (Canada), IECSC (China), EINECS (EU), ENCS & ISHL (Japan), KECI (Korea), NZIoC (New Zealand), TCSI (Taiwan), PICCS (Philippines)

MARKET	KEY WORDS	REFERENCES	COMMENTS
Starting raw material for pharmaceutical industries (*)	Residual metal catalysts	ICH Q3D(R1) EMA/CHMP/ICH/353369/2013	No metal catalysts are used in the manufacturing process.
	Residual solvents	ICH Q3C(R6) EMA/CHMP/ICH/82260/2006	No class I , II or III solvents are used in the manufacturing process.
	GMO	Commission Regulation (EC) N°1830/2003 and N° 1829/2003	The product is not concerned as it is exclusively produced by full chemical synthesis.
	BSE/TSE	Commission Regulation (EC) N° 999/2001/EC	The product is not concerned as it is exclusively manufactured by full chemical synthesis and contains no ingredients of animal origin and no material derivative from or exposed to animals.

(* as per definition in ICH Q7, chapter 1.3 Scope)

