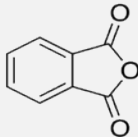




SPECIFICATION

PHTHALIC ANHYDRIDE

Chemical Formula	C ₆ H ₄ (CO) ₂ O
Molecular weight	148.1
CAS Registry Number	85-44-9
Molecular Structure	

Reach Registration Number: 01 – 2119457017 - 41 - 0010

Description: Phthalic Anhydride is an important aromatic di-carboxylic acid anhydride, which is widely used in the manufacture of Alkyd Resins for Paints, Inks and Coatings, Unsaturated Polyester Resins, Plasticizers and Pigments.

SPECIFICATIONS (CONFORMS TO IS 5158: 1987)

Characteristics	Unit	Guaranteed		Typical
Appearance	-	White Flakes		White Flakes
Purity (Gas Chromatography)	Wt. %	Min.	99.8	99.9
Maleic Anhydride (GC)	Wt. %	Max.	0.05	0.02
Solidification Point	°C	Min.	130.8	130.8
Melt Color	APHA	Max.	20	10
Heat Stability	APHA	Max.	50	30
Free Acidity (as Phthalic acid) *	Wt. %	Max.	0.1	0.05
Maleic Anhydride and other oxidizable impurities *	Wt. %	Max.	0.1	0.05
Ash *	PPM	Max.	50	20
Iron *	PPM	Max.	3	1
Naphthaquinone *	PPM	Max.	5	Not Detected
Naphthalene *	PPM	Max.	20	Not Detected

Note: * parameters that will be reported on request



PACKAGING

1. Laminated HDPE / PP Bags. Net Weight - 25 Kg 2. Bulk Bags. Net Weight - 1000 /750 /600 /500 Kg	Full Container Load (FCL): 3. Packed in Bulk Bags: a) 1000 Kg X 10 and 750 Kg X 10 bulk bags on Pallets = 17.5 MT / FCL
Full Container Load (FCL): 1. Loose stuffing of 25 Kg Bags: 840 X 25 Kg Bags = 21 MT / FCL	b) 600 Kg X 3 Bulk Bags on Pallet = 1.8 MT X 10 Pallets = 18 MT / FCL c) (500 Kg X 2 Bulk Bags on Pallet X 10=10 MT) + (25 Kg X 32 Bags on Pallet X 10 = 8 MT) = 18 MT / FCL (500 Kg Bulk Bag is Antistatic Bag)
2. Palletised & Stretch Wrapped Packed in 25 Kg Bags 40 X 25 Kg Bags / Pallet = 1.0 MT 36 X 25 Kg Bags / Pallet = 0.9 MT 32 X 25 Kg Bags / Pallet = 0.8 MT a) 1.0 MT X 10 Pallets and 0.8 MT X 10 Pallets = 18 MT / FCL b) 1.0 MT X 10 Pallets and 0.9 MT X 10 Pallets = 19 MT / FCL	

Health Hazard:

Phthalic Anhydride is not poisonous. However, inhalation, or prolonged exposure must be avoided. Its dust irritates the mucous membrane. It is recommended to wear Safety Goggles, while handling this material. Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

Fire and Explosion Hazard:

Phthalic Anhydride whether molten or solid is an inflammable material and its dust and vapours can form explosive mixture, when in contact with air. It is essential to store or handle the material in a well-ventilated area away from any source of ignition.

Storage:

Phthalic Anhydride should be stored in cool, properly covered, dry area, away from direct sunlight. It should not be exposed to rain/ humidity as this leads to formation of Phthalic Acid, which is insoluble in Benzene and lowers the Melting Point.



Typical Reactions, Products and Applications:

