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GC PHT Diolo HV

Reaction products of tetrabromophthalic anhydride with 2,2'-oxydiethanol and methyloxirane

CAS Registry Number 77098-07-8

GC PHT Diolo HV flame retardant is a stable, reactive bromine-containing diester/ether diol of tetrabromophthalic anhydride. The nominal structure of **GC PHT Diolo HV** flame retardant is a mixed ester of tetrabromophthalic anhydride with diethylene glycol and propylene glycol. **GC PHT Diolo HV** is a reactive diol for rigid polyurethane foam, urethane elastomers and coatings with high bromine content, scorch resistant and good performance.

PHYSICO-CHEMICAL	PROPERTIES

Appearance Amber liquid

Bromine content, % > 44

Density @ 25°C, g/ml ab. 1.75

Viscosity @25°C, CP 70000-120000

Acid Number, (mg KOH/g) < 1.0 Hydroxyl number (mg KOH)/g) 150-235

Solubility (g)@ 20°C in 100 g solvent Water <0.5 Methanol 9

TGA (10 mg @ 10°C/min under N₂) Weight Loss 5 % 10 % 50 % 95 %

Temperature 127°C 151°C 325 °C 382°C

HANDLING AND STORAGE: The processing and use of GC PHT Diolo HV requires adequate technical and

professional knowledge. Please consult safety data sheet for further handling, storage

and toxicity information.

GC PHT Diolo HV has to be stored in tightly sealed original container in a cool and well-

ventilated area, away from direct sunlight.

PACKAGING: GC PHT Diolo HV is packed in 200L zinc iron drums, 300kg/drum or 1500kg/IBC.

Important note Some plastic additives, fillers or pigments can influence significantly on flame retardant

properties. Before to use the products, please be informed.

Stop machine with high temperature could create degradation of polymer, please clean

Phone: +39 0362 1547305 Fax: +39 039 8942754

with neutral polymers.

DISCLAIMER:

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