

Title (en)

HIGH-PRESSURE PROCESS FOR THE PREPARATION OF MELAMINE FROM UREA

Title (de)

HOCHDRUCKVERFAHREN ZUR HERSTELLUNG VON MELAMIN AUS HARNSTOFF

Title (fr)

PROCEDE SOUS HAUTE PRESSION POUR LA PREPARATION DE MELAMINE A PARTIR D'UREE

Publication

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Application

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Abstract (en)

[origin: WO0040567A1] The invention relates to a process for the preparation of melamine from urea comprising the steps of: (a) introducing urea melt and hot ammonia gas into a melamine reactor having a pressure within the range 50-150 bar and a temperature within the range 360-470 DEG C, to obtain a melamine melt and off-gases; (b) separating said off-gases from said melamine melt; (c) introducing said melamine melt and ammonia gas into an evaporator having a pressure within the range 1-15 bar and a temperature within the range 290-520 DEG C, to obtain a melamine-containing gas mixture; and (d) introducing said melamine-containing gas mixture into a cooler having a pressure within the range 1-15 bar and a temperature within the range 0-250 DEG C, to convert the gaseous melamine to solid high purity melamine.

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