Technical Information
Plastic Additives

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Irgastab® PUR 70

Amine-free package for polyols

Characterization

Irgastab® PUR 70 is a novel liquid heat stabilizer blend for polyether- and polyester-based flexible foams. It is a BHT- and amine-free blend.

CAS number

Preparation

Applications

Irgastab® PUR 70 is particularly suitable for the stabilization of polyols used for the manufacture of PUR flexible foams.

Because of its negligible contribution to emissions, Irgastab® PUR 70 can be used across a broad density range of flexible foams in automotive applications.

Due to its outstanding gas-fading resistance and extremely low light-induced discoloration, Irgastab® PUR 70 can be used in applications where foam whiteness is key.

Irgastab® PUR 70 can also be applied in combination with additional anti-oxidants, co-stabilizers (e. g. phosphites), and/or light stabilizers (e. g. HALS, UVA).

Features / benefits

Irgastab® PUR 70 exhibits good resistance to scorch, fogging, and textile staining.

Irgastab® PUR 70 is an amine-free / aromatic-solvents-free thermal stabilizer providing extremely low VOC and FOG contributions and reducing aldehyde emissions from Polyol and in PU foams, fulfilling the latest emissions automotive requirements (e. g. VDA 278 10/11).

In addition, it confers outstanding resistance to foam discoloration after gas and/or light exposure.

Irgastab® PUR 70 is a pourable liquid allowing dust-free handling, automatic dosage and shortening of mixing time.

It increases productivity by reducing weighting and metering to one single operation.

Product forms

Irgastab® PUR 70	clear, yellow liquid

Guidelines for use

In slabstock polyol applications, the concentration of Irgastab® PUR 70 ranges between 0.4 % and 0.45 % depending on the degree of stabilization desired.

In moulding polyol grades, levels of 0.05 % to 0.1 % of Irgastab® PUR 70 are recommended.

Additional performance data in polyols are available upon request

Physical properties

Boiling point	> 200 °C
Viscosity (40 °C)	350 – 500 mm^2/s
Relative density (20 °C)	0.95 – 1.10
Vapor pressure (20 °C)	< 0.1 mbar
Water solubility	partly soluble

Handling & Safety

In accordance with good industrial practice, handle with care and prevent contamination of the environment.

For more detailed information please refer to the material safety data sheet.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

Note

The descriptions, designs, data and information contained herein are presented in good faith and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contractual quality of the product or a part of BASF's terms and conditions of sale.

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