

	Ciba® TINUVIN® NOR TM 371 High Molecular Weight Hindered Amine NOR Stabilizer			
Characterization	TINUVIN NOR 371 is a proprietary high molecular weight hindered amine NOR stabilizer. TINUVIN NOR 371 is an excellent UV / thermal stabilizer and is particularly well suited for agricultural film applications, such as greenhouse and mulch films.			
Chemical name	Triazine derivative			
Molecular weight	2800-4000			
Applications Features/benefits	TINUVIN NOR 371 areas of applications include polyolefins (PP, PE) as well as olefin copolymers, such as EVA and EBA. TINUVIN NOR 371 is designed to provide outstanding stabilization to agricultural films even in presence of chemicals such as pesticides, insecticides or soil disinfection agents. It shows outstanding performance also as long-term antioxidant; this behavior is especially useful where films are in contact with frames (wood, iron, aluminum).			
Product forms	Code: Apperance:		TINUVIN NOR 371 FF Slightly pinkish granules	
Guidelines for use		UV stabilization of greenhouse film 0.2-1.6% UV stabilization of mulch films 0.2-1.0% osorbers (e.g. TINUVIN 326, TINUVIN 327, TINUVIN 328, Ciba CHIMASSORB® it may give rise to synergistic mixtures.		
Physical Properties	Melting Range Specific Gravity (24 °C) Vapor Pressure (20 °C) Bulk density Solubility (20 °C) Water Tetrahydrofurane Dichloromethane n-Octanol Isopropanol	120 – 150 °C 1.03 g/cm³ < 0.6 Pa 380 - 450 g/l % w/w 3.3 x 10 ⁻⁵ > 100 10 - 100 0.1 - 0.2 < 0.1		
	Volatility Weight Loss (%) 0.27 0.46 0.95 2.36	Pure substance; TGA; heating ra Temperature °C 200 225 250 275	ate 10°C/min in air	

Handling & Safety

TINUVIN NOR 371 requires no special safety measures, provided the usual precautions for handling

chemicals are observed.

Avoid dust formation and ignition sources. For more detailed information please refer to the

material safety data sheet.

Registration

Australia: pending Canada: notified

Europe: polymer, monomers listed on EINECS

Japan: MITI Korea: pending USA: TSCA

Important Notes

- 1.) Use of TINUVIN NOR 371 Light Stabilizer in combination with flame retardants may constitute infringement of Australian Patent No. 735643 or/and US Patent No. 5,393,812 and of any existing equivalent patents or any patents granted on equivalent patent applications in other countries.
- 2.) Please be aware that the presence of BHT antioxidant in plastic articles containing TINUVIN NOR 371 can give rise to discoloration if the article is stored in absence of light. This effect normally disappears upon UV exposure without significantly affecting the light stabilization properties of TINUVIN NOR 371. Antioxidants like Ciba IRGANOX® 1010 and Ciba IRGANOX® 1076 do not give rise to such effect in normal conditions.

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