



## GENSORB 770 Hindered Amine Light Stabilizer (HALS)

<b>Characterization</b>	GENSORB 770 is a hindered amine light stabilizer (HALS) for applications demanding particularly high light stability. It provides excellent light stability for thick sections but can also be used for articles with a high surface area such as films and tapes.	
<b>Chemical Name</b>	Bis (2'2'6'6'-tetramethyl-4-piperidyl) sebacate	
<b>CAS Number</b>	52829-07-9	
<b>Molecular weight</b>	481	
<b>Applications</b>	GENSORB 770 is recommended to be used in polypropylene, impact modified pp (TPO), EPDM, polystyrene, ABS, SAN, ASA, and polyurethanes and is also effective in polyamides and polyacetals.	
<b>Features / Benefits</b>	<p>GENSORB 770 is a low molecular weight hindered amine light stabilizer that provides excellent light stability for thick sections and films in the recommended substrates. Benefit of using GENSORB 770 is the high light-stabilizing performance, particularly in PP thick sections. It has broad compatibility and can be easily dispersed.</p> <p>Compared to conventional UV-absorbers, the effectiveness of GENSORB 770 is less dependent on the polymer's thickness. For this reason the use of GENSORB 770 also provides good light stability in articles with higher specific surface, e.g. films and tapes. Combined with other HALS GENSORB 770 is part of other synergistic blends, e.g. TINUVIN 791</p>	
<b>Product Forms</b>	Code: GENSORB 770	Appearance: White crystalline granules
<b>Guidelines for Use</b>	The recommended concentrations range between 0.1% and 0.5%, depending on the substrate, processing conditions and application. The optimum level is substrate and application specific. Extensive performance data of GENSORB 770 in various substrates and for various applications is available upon request	

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## Physical Properties

Melting Range	81-85° C
Flashpoint	>150° C DIN 51584
Specific Gravity (20° C)	1.05g/cm
Vapor pressure (20° C)	1.3E-8pa

Bulk density	
GENSORB 770	470-510g/l
Solubility (20° C)	g/100g solution
Acetone	19
Chloroform	45
Ethanol	
Ethyl acetate	24
n-Hexane	5
Methanol	38
Methylene Chloride	56
Toluene	-
Water	<0.01

### Volatility (pure substance, TGA-data, heating rate 20 °C/min in air)

Temperature(° C)	% weight loss
150	0.7
175	0.7
200	1.0
225	2.1
250	7.2
275	19.8

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## Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid contact with eyes. Avoid release to the environment. Avoid dust formation and ignition sources. For more detailed information please refer to the materials safety data sheet.

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**Registration**

GENSORB 770 is listed on listed on the following inventories

Australia:	AICS	Canada:	DSL	China:	First Import
Europe:	EINECS	Japan:	MITI	Korea:	ECL
Philippines:	PICCS	USA:	TSCA		

GENSORB 770 is approved in many countries for in food contact applications.

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