



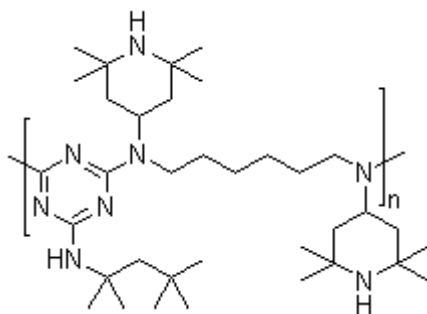
Entrada 200 Unit 203 tel.: 31 20 4166638
 1114 AA Amsterdam-Duivendrecht fax: 31 20 5241356
 The Netherlands email : sales@hunan-chem.com

www.hunan-chem.com

Trade registration nr. 50769421 Chamber of Commerce Amsterdam

Technical Data Sheet

Product name: UV-944
Chemical name: N,N'-bis(2,2,6,6-tetramethylpiperidin-4-yl)hexane-1,6-diamine;
 2,4,6-trichloro-1,3,5-triazine; 2,4,4-trimethylpentan-2-amine
 Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-
 diyl]][(2,2,6,6-tetramethyl-4-piperidyl)imino]hexamethylene[(2,2,6,6-
 tetramethyl-4-piperidyl)imino]]
 Polymeric sterically hindered amine light stabiliser
Synonym: chimassorb@944, HALS 944
CAS No: 71878-19-8 or 70624-18-9(USA)
Chemical Structure:



Quality norm: technical grade

Specification:

Appearance	:	Pale yellow granular powder
Volatile (%):	:	1.0
Molecular weight (Mn):	:	2000-3100
Ash (%)	:	0.1 max.
Transmittance (%)		
425 nm	:	90 min.
450 nm	:	93 min.

Characterization:

UV-944 is a high molecular weight hindered amine light stabilizer (HALS). It shows excellent compatibility, high resistance to extraction and low volatility.

Application:

UV-944 areas of application include polyolefins (PP, PE), olefin copolymers such as EVA as well as blends of polypropylene with elastomers.

In addition in certain instances UV-944 is highly effective in polyacetals polyamides, polyurethanes, flexible and rigid PVC, as well as PVC blends and in certain styrenic elastomer and adhesive specialty applications.

Features/benefits

UV-944 imparts excellent light stability to thin articles, particularly fibers and films. In thick cross sections it is specifically suitable for polyethylene articles.

UV-944 is highly effective as a long-term thermal stabilizer in thin and thick articles and shows good extraction resistance.

Guidelines for use:

Thick Sections	UV Stabilization of HDPE, LLDPE, LDPE and PP	0.05 - 0.6%
Films	UV Stabilization of LLDPE and LDPE	0.10 - 1.0%
Tapes	UV Stabilization of PP and HDPE	0.20 - 0.8%
Fibers	UV Stabilization of PP	0.10 - 1.0%

Physical Properties:

Melting Range	100 – 135 °C
Flashpoint	> 150 °C ASTM D-93
Specific Gravity (20 °C)	1.01 g/cm ³
Vapor Pressure (20 °C)	~ 1.0 E-6 Pa

Solubility (20 °C) **% w/w**

Acetone	> 50
Chloroform	> 30
Ethanol	< 0.1
Ethyl acetate	> 50
n-Hexane	41
Methanol	3
Methylene chloride	> 50
Toluene	> 50
Water	< 0.01

Volatility**Pure substance; TGA-data, heating rate 20°C/min in air**

Weight Loss (%)	Temperature OC
0	250
0.2	275
1.0	300
3.7	325
9.4	350

Handling and 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 dust formation and ignition sources.

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

Registration:

Australia:	AICS
Canada:	DSL
China:	First Import
Europe:	polymer, monomers on EINECS
Japan:	MITI
Korea:	ECL

Philippines:

PICCS

USA:

TSCA

Packing:

In 25kg net cartons on pallets or as required, 500kgs per pallet wrapped and film shrunk
Loading capacity: 10mt in 20'FCL

IMPORTANT:

The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for the intended conditions of use. The product(s) has (have) not been tested for, and is (are) therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

Please note that products may differ from country to country. If you have any queries, please kindly contact us.