

# PowerStab™ 770 HALS UV Stabilizers

## Introduction

PowerStab™ 770 is a low molecular weight 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.

## Chemical Name

Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Synonym:

Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester

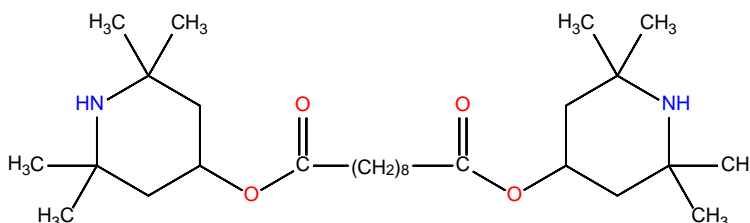
## CAS Number

52829-07-9

## EINECS Number

258-207-9

## Chemical Structure



## Chemical Formula

$C_{28}H_{52}O_4N_2$

## Molecular Weight

481

## Physical Properties

|                            |                            |
|----------------------------|----------------------------|
| Appearance                 | White Crystalline Granules |
| Melting range (°C)         | 81-85                      |
| Flashpoint [DIN 51584, °C] | Min.150                    |
| Specific gravity (20°C)    | 1.05                       |

## Solubility

| Solubility [20°C] | % w/w |
|-------------------|-------|
| Acetone           | 20    |
| Chloroform        | 90    |
| Dichloromethane   | 56    |
| Ethyl acetate     | 20    |

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|          |       |
|----------|-------|
| n-Hexane | 4     |
| Methanol | 51    |
| Toluene  | 50    |
| Water    | <0.01 |

### Benefits & Applications

PowerStab™ 770 is recommended to be used in polypropylene, impact modified PP (TPO), EPDM, polystyrene, impact polystyrene, ABS, SAN, ASA, polyurethanes, and is also effective in polyamides and polyacetals.

### Handling & Storage

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. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

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

### Packing

PowerStab™ 770 is supplied in 25kg drum.

### Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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