



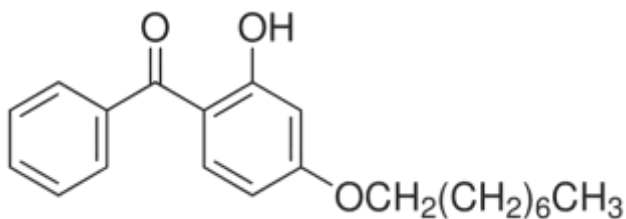
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Trade registration nr. 50769421 Chamber of Commerce Amsterdam

Technical Data Sheet

Product name:	UV-531
Product Form:	Yellowish crystalline powder
Chemical name:	2-Hydroxy-4-(octyloxy)benzophenone
Synonym:	Cyasorb 531, Benzophenone-12, Octabenzene, chimassorb 81, Uvinul 3008.
CAS No:	1843-05-6
EINECS No:	217-421-2
Molecular formula:	CH ₃ (CH ₂) ₇ OC ₆ H ₃ (OH)COC ₆ H ₅
Molecular weight:	326.43
IUPAC Name:	(2-hydroxy-4-octoxyphenyl)-phenylmethanone
Structure formula:	



Chemical Specification

Appearance	Yellowish crystalline powder
Content (GC) (%):	00.0 min
Melting Point (°C):	47.0 – 49.0
Volatiles (%):	0.20 max.
Ash (%):	0.10 max.
Transmittance	
450 nm (%):	94.0 min.
500 nm (%):	97.0 min.

Packing:

In 25kgs net bags/cartons on pallet or as requirement

FDA Status

UV-531 light stabilizer is sanctioned by Section 178.2010 of the Food Additive Regulations for use as a stabilizer in olefin polymers complying with Section 177.1520 (c) items 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, 3.3, and 4, at concentrations not exceeding 0.5 percent by weight of the polymer. The finished articles may be used in contact with certain foods of high water content and with dry foods, specifically, aqueous non-acid foods, dairy products consisting of oil-in-water emulsions, and moist bakery products and dry solids with no free surface fat or oil (FDA's food types I, IV-B, VII-B, and VIII),

under conditions as severe as or less severe than boiling-water sterilization (FDA's conditions of use B through H).

UV-531 light stabilizer is sanctioned by Section 178.3710 of the Food Additives Regulations for use as a stabilizer in petroleum wax used as a component of articles in contact with food at a level not to exceed 0.01 percent by weight of the wax.

Health and Safety

EFFECTS OF OVEREXPOSURE:

Acute oral (rat) and acute dermal (rabbit) LD50 values for this product are both >10.0 g/kg. The 4-hour LC50 (rat) value is estimated to be greater than 20 mg/L. No skin irritation and minimal eye irritation were produced during primary studies with rabbits. Repeated dermal application of a 25% concentration in petrolatum for 48 hour exposures did not cause dermal irritation or allergic skin reaction in 25 human subjects. Before handling this material, read the corresponding Hunan Chemical Material Safety Data Sheet (MSDS) for safety, health, and environmental data.

Solubility (20°C, % m/m)

acetone	43
chloroform	61
ethanol	4
ethyl acetate	44
n-hexane	12
methanol	2
methylene chloride	67
toluene	> 50
water	< 0.01

Application

The main applications are LLDPE und LDPE/EVA-films as well as PVC and HDPE applications. In polyolefins it is recommended to combine UV-531 with a HALS.

Absorbance spectrum (0.2g/l in acetonitrile, d=1mm)

