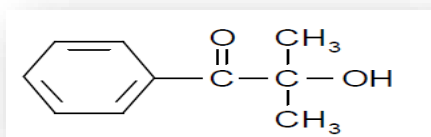


**Technical Data Sheet****PRODUCT NAME: SUNEX CAT-4010****Product Descriptions:**

SUNEX CAT-4010 is a multipurpose and highly efficient liquid photo initiator which is used to initiate the photo-polymerization of chemically unsaturated prepolymers.

**Chemical Structure:**

The chemical structure SUNEX CAT-4010 is a 2-Hydroxy-2-Methyl-Phenyl-Propane-1-one and molecular weight 164.2. The structure can be represented by the following structural formula:

**Active Advantages:**

- ❖ High efficiency: It is a highly efficient photo initiator, meaning that it requires a lower amount of initiator to initiate a polymerization reaction compared to other initiators.
- ❖ Broad spectral response: It has a broad spectral response, meaning that it can absorb UV light over a wide range of wavelengths. This allows it to be used in a variety of curing applications.
- ❖ Low toxicity: It is considered to be a low toxicity photo initiator, which makes it suitable for use in applications where human contact with the cured material is likely.
- ❖ Flexibility: It is suitable for a wide range of applications, including UV curing of coatings, adhesives, and inks.
- ❖ Compatibility: It is compatible with a wide range of resins, making it a versatile photo initiator that can be used in many different formulations.

- ❖ Long shelf life: it is relatively stable and has a long shelf life, which makes it easy to store and use in manufacturing processes.

**Basic Properties:**

Appearance	: Colorless to slightly yellow liquid
Density	: 1.08 g/cm <sup>3</sup>
Purity (HPLC)	: >98.5%
Melting Point	: 4°C
Viscosity (at 20°C)	: 25 ±2cps
Ash	: <0.1%

**Area of Application:**

- ❖ Printing Inks & coatings
- ❖ Clear lacquers,
- ❖ Wood-coatings and optical-fiber coatings
- ❖ Adhesives

**Packing Size:**

- ❖ 25 & 50 Kg Container

**Safety & Handling:**

For safe handling must be follow instruction as under:

- ❖ It is sensitive to light, so it should be stored in a dark place and handled under yellow light.
- ❖ Should be kept away from light, temperature, and heat.
- ❖ Store in a cool and dark place to avoid polymerization.
- ❖ SUNEX CAT-4010 can be harmful to the skin and eyes and should be handled with care. It should be used with appropriate safety equipment, such as gloves and safety glasses.

**Storage Conditions:**

- ❖ It should be stored in dry place temperature in between 4-40 centigrade in original container kept tightly closed.

**Disclaimer:** All suggestions for use of our recommended products cited here are based on the results of tests carried out in our R&D lab and correct to the best of our knowledge and belief. However, no legal liability can be accepted with respect of such information as we cannot control the application procedures adopted by our users. We suggest having a pilot trial for the users prior to full commercialization of this product.