SUNSULFS

.....*INVENTCHEMISTRIES*

Technical Data Sheet

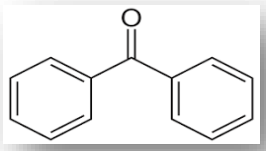
PRODUCT NAME: SUNEX CAT-4006

Product Descriptions:

SUNEX CAT-4006 is chemically a very efficient and refined grade of Benzophenone, which is used for the Type-II curing of UV Inks, coatings, and adhesives.

Chemical Structure:

The chemical structure of benzophenone is characterized by a benzene ring with a ketone group (-CO-) attached to the phenyl ring at the ortho (1,2) position. The chemical formula of benzophenone is C13H10O. The structure can be represented by the following structural formula:



It has a molecular weight of 182.22 g/mol.

Active Advantages:

- Benzophenone is primarily used as a UV photo initiator, absorber and light stabilizer in various industrial applications such as inks, plastics, coatings, and adhesives.
- It can also be used as a starting material in the synthesis of other compounds.
- Benzophenone is known to absorb UV radiation in the range of 290-380 nm, making it effective in protecting materials from UV degradation.

Basic Properties:

- Appearance : White to off-white Flakes
- Purity (HPLC) : >98.5%
- Melting Point : 47-49^{0}C
- Ash : <0.1%

Area of Application:

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

Packing Size:

- 25 & 50 Kg pack

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-4006 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.