

OXO – PHOTOBIODEGRADABLE ADDITIVE

Q.1) What is the composition of Oxo-Photobiodegradable Additive?

- **Oxo-Photobiodegradable Additive** is composed of Poly-functional hydrophilic polymer.

Q.2) What is the Mechanism of Action?

- Oxo-Photobiodegradable Additive breaks the bonds in polymers and initiates their degradation in the presence of UV light/sunlight and oxygen, producing carbonyl, hydroxyl or carboxylic end groups. These are readily biodegraded.

Q.3) How is Oxo-Photobiodegradable Additive superior to others?

- Managing plastic waste is a big challenge. Most polymers do not degenerate after land filling or by throwing as garbage.
- Oxo-Photobiodegradable Additive is a mixture of organo-soluble metal salts that are catalytically active. On exposure to sun light and oxygen, these generate free radicals which disintegrate polymers. Thus, the land filling becomes easy and feasible. The unique combination of metals used in our products speeds up the process without affecting the molded product properties in use.

Q.4) Method of Use

- The recommended addition of **Oxo-Photobiodegradable Additive** is **3 %** for master batch in LLDPE, PS, and PBT or other polymers for films.
- The recommended addition of this master batch is **1%** for films and **1 -2 %** for thick-walled components.

Q.5) Certificates

- Overall migration in plastic material coming into contact with food.
- Colour Migration

Q.6) Can additive addition in the product change its basic properties?

- It will not change the basic properties of the product.

Q.7) What is the shelf life of Oxo-Photobiodegradable Additive?

- Oxo-Photobiodegradable Additive has two years of shelf life from the date of manufacture under dry condition of storage at R.T.