Introduction
IXPER® 70C Calcium Peroxide Granules is a unique material offered by Solvay Chemicals, Inc. It is specifically designed to avoid the dust generated from handling other calcium peroxide grades.

Applications include soil remediation, soil amendment, water treatment, oilfield applications and many others.

Composition
IXPER 70C Calcium Peroxide Granules contains a minimum of 70% calcium peroxide. This is equivalent to ~15.5% available oxygen.

IXPER 70C Calcium Peroxide Granules is manufactured with ingredients of food grade quality. This is particularly important for environmental applications.

Properties
The pH of a suspension of calcium peroxide depends upon its concentration. A 0.05% suspension of IXPER 70C Calcium Peroxide Granules has a pH of 7.5, but higher concentrations exhibit higher pHs. A concentration of 1% has a pH above 12.

A study done on a 1% aqueous suspension by Western Michigan University showed that the pH dropped substantially when the products were added to a soil of pH 7.9.
IXPER® 70C Calcium Peroxide Granules decomposes slowly in contact with water with the generation of oxygen. Typically H₂O₂ is not generated under these conditions due to the high pH.

\[ 2\text{CaO}_2 + 2\text{H}_2\text{O} \rightarrow 2\text{Ca(OH)}_2 + \text{O}_2 \]

The rate of gaseous oxygen generation is influenced by the physical and chemical properties of the surrounding medium such as pH, and temperature.

A study done by Western Michigan University showed that IXPER 70C Calcium Peroxide Granules has a slower oxygen release than several powder calcium peroxide grades.
If IXPER® 70C Calcium Peroxide Granules is exposed to a lower pH, it can generate increasing amounts of hydrogen peroxide.

\[ 2\text{CaO}_2 + 2\text{H}^+ \rightarrow 2\text{Ca}^{2+} + \text{H}_2\text{O}_2 \]

Please review the technical datasheet entitled “IXPER 75C Calcium Peroxide Properties” for additional information about the properties of these products.

**Packaging**
The product is packaged in 50kg fiberboard boxes. There are 18 boxes to a pallet.

**Customer Service**
To discuss the safety and handling of IXPER® 70C Calcium Peroxide Granules, contact Solvay Chemicals, Inc. at 1-800-SOLVAY-C (765-8292) or 713-525-6500.

24 hour Emergency Phone Number – 1-800-424-9300

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