



Oxygen BioChem (OBC)™ is used to promote chemical oxidation and aerobic bioremediation of petroleum compounds in groundwater. OBC is a mixture of oxidants for short-term *in situ* chemical oxidation (ISCO) and provides electron acceptors for longer-term biological oxidation.

## CHEMICAL/PHYSICAL DATA

<b>Form</b>	Solid
<b>Appearance</b>	Off-white fine granular solid
<b>Odor</b>	Odorless
<b>Specific Gravity</b>	2.60-2.92 g/mL
<b>pH</b>	11.3-12.1 @ 25° C / 1 hour
<b>Melting Point</b>	Decomposes on heating (~275° C)
<b>Vapor Pressure</b>	< 1 mm Hg
<b>Solubility in Water</b>	18% insoluble @ 25° C 73% soluble @ 25° C

## APPLICATIONS

OBC is used for *in situ* treatment of petroleum groundwater contaminants by chemical oxidation and aerobic bioremediation. These types of contaminants include BTEX (benzene, toluene, ethylbenzene, and xylene), MTBE (methyl tertiary butyl ether), PAHs (polycyclic aromatic hydrocarbons), chlorinated alkenes, chlorinated alkanes, 1,4-dioxane, PCBs (polychlorinated biphenyls), and pentachlorophenol.

## SHIPPING CONTAINERS

**5-gallon pail (19-L)** Made of high-density polyethylene (HDPE). The net weight is 50 lbs (22.6 kg). The pail stands approximately 14.6 in (37.1 cm) tall. The diameter of the outside of the pail is 11.8 in (29.9 cm) wide at the top and 10.5 in (26.6 cm) at the base. (Domestic and international)

## HANDLING, STORAGE, AND INCOMPATIBILITY

Store in an area away from strong oxidants and reducing agents. Store unopened in a cool, clean, dry place away from point sources of heat.

Fires may be controlled and extinguished by using large quantities of water. Do not use carbon dioxide or other gas filled fire extinguishers. Refer to SDS or eSDS for more information. For first aid measures, refer to the SDS or eSDS for more information.

## SHIPPING

OBC is classified by the Hazardous Materials Transportation Board (HMTB) as an oxidizer.

<b>Proper Shipping Name:</b>	Oxidizing solid, n.o.s. (sodium persulfate, calcium peroxide)
<b>Hazard Class:</b>	5.1 (oxidizer)
<b>Identification Number:</b>	UN 1479
<b>Label Requirements:</b>	5.1 (oxidizer)
<b>RCRA Waste Number:</b>	D001