

STIMULOX[®] Aerobic Bioremediation Product
 CAS Registry No. 1305-79-9, 7727-21-1, 7727-54-0
 EINECS No. 215-139-4, 231-781-8, 231-786-5



FACT SHEET

STIMULOX[®] aerobic bioremediation product has been specifically manufactured for environmental applications such as remediation of soils and associated groundwater. This product can be used to stimulate natural degradation of petroleum hydrocarbons such as benzene, toluene, ethylbenzene and xylenes (BTEX). STIMULOX also supports passive chemical oxidation.

STIMULOX is a proprietary blend of peroxygen chemicals and other compounds that slowly dissolve in groundwater, releasing oxygen, fixed nitrogen, phosphate, potassium, and other nutrients to stimulate natural degradation.

CHEMICAL/PHYSICAL DATA

Appearance - White to ivory colored, odorless powder
pH - Saturated solution has a pH of approximately 11
Solubility - Reacts with water, soluble in acid

SHIPPING CONTAINERS

HDPE buckets 30-lb (13.6-kg) net weight.
Fiber drum with 225-lb (102-kg) net weight.
Special packages will be considered upon request.
Packaging meets UN performance-oriented packaging requirements.

SHIPPING

STIMULOX is classified as an oxidizer for both domestic and international transportation.

Proper Shipping Name: Oxidizing solid, n.o.s (calcium peroxide, dipotassium peroxodisulfate)
Hazard Class: Oxidizer, 5.1
Identification Number: UN 1479
Label Requirements: Oxidizer, 5.1

HANDLING, STORAGE, AND INCOMPATIBILITY

STIMULOX is stable when stored in a cool, dry, ventilated area. Protect from physical damage, direct sunlight, and heat sources. Product will decompose in storage under conditions of moisture and/or excessive heat, causing release of oxygen that may support combustion. Maintain temperature below 100° F (37.8° C).

Spilled material should be swept up, place in DOT-approved, vented containers and isolated for disposal. Isolated material should be monitored for evidence of decomposition (fuming/smoking). If spilled material is wet, then dissolve completely with water.

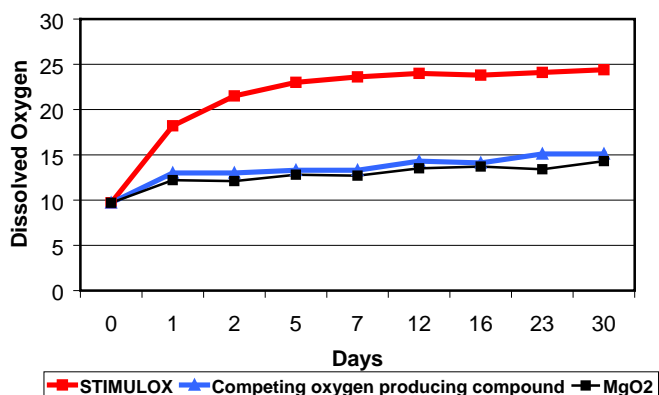
Proper personal protective equipment includes safety glasses or goggles, gloves, an apron, and a dust respirator.

Store in accordance with NFPA 430 requirements for Class I oxidizer. Protect containers from physical damage. Store in a cool, dry area in closed containers. Keep away from heat and flames. Do not store near strong oxidizing agents.

Fires may be controlled and extinguished by deluging with water. Carbon dioxide or other gas-filled fire extinguishers have no effect on decomposing product. Refer to the MSDS for more information.

DISSOLVED OXYGEN COMPARISON

Comparison of STIMULOX, Competing Oxygen Producing Compound, and MgO₂ Jar Test Dissolved Oxygen



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