

MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification & Use

Product Name: **Bio-Shock**
 WHMIS Classification: Class C, Oxidizing Material
 Class D, div.2, Toxic Material
 TDG Classification: UN 1476, Magnesium Peroxide,
 Class 5.1
 Supplier: Advance Chemicals Ltd.
 2023 Kingsway Ave
 Port Coquitlam, BC V3C 1S9
 phone (604)945-9666,
 fax (604)945-9617
 Emergency phone: CANUTEC 24 hrs (613) 996-6666

Section 2 - Hazardous Ingredients

Hazardous Components	%(v/v)	C.A.S. No.	LD ₅₀ & LC ₅₀
Magnesium Peroxide	10-30	14452-57-4	no data
Phospholipid liposome	15-40	8013-01-2	no data
Biological additives mixture	15-40	mixture	no data
Yeast extract	5-10	8013-01-2	no data
Lysozyme chloride	3-7	9001-63-2	no data

Section 3 - Physical Data

Physical state: fluffy powder
 Melting point: > 300°C
 Bulk density: no data
 pH: no data
 Solubility in water: 1% @ 30°C
 Vapor pressure: no data
 Evaporation rate: not volatile
Odour and Appearance: The product is an odourless, tan coloured, fluffy, fine powder.

Section 4 - Fire or Explosion Hazard

Flammability: This product will not burn.
Extinguishing media: Water spray or foam.
Fire & Explosion Hazards: This product is considered non-flammable.
Hazardous Combustion Products: No data found.

Section 5 - Reactivity Data

Chemical Stability: Stable.
Incompatible substances: Strong acids and strong alkalies.
Polymerization: Will not occur.

Section 6 - Toxicological Properties

Skin contact: Slight irritant.
Eye contact: Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.
Inhalation: Inhalation may cause irritation of the upper respiratory passages with coughing and discomfort.
Ingestion: LD50 (oral, rat): 5000 mg/L

Section 7 - Preventative Measures

Handling & Storage: Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling this product. Store in a cool, dry, well-ventilated location.

Personal Protective Equipment: Wear safety glasses. Wear impervious clothing, gloves, apron and boots.

Respiratory Protection: A NIOSH/MSHA approved air-purifying respirator with a dust/mist cartridge or canister may be permissible under certain situations when airborne concentrations are high.

Ventilation Requirements: This product should be used in a well-ventilated area at all times to minimize employee exposure limits.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures. Keep product out of sewers, storm drains, surface run-off water and soil. Restrict access to non-protected personnel. Comply with all government regulations on spill reporting, handling and disposal of waste.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention. If breathing is difficult, administer oxygen.

In case of eye contact: Immediately flush eyes with clean water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Get immediate emergency medical attention.

In case of skin contact: Immediately flush skin with plenty of clean running water for at least fifteen (15) minutes. Remove contaminated clothing and shoes. If irritation persists after washing, get immediate medical attention. Wash and launder clothes before re-use.

In case of ingestion or swallowing: If victim is conscious, immediately dilute stomach contents by giving two glasses of milk or water. Do not induce vomiting. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Limited expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all-inclusive, and the manner and conditions of use may involve other and additional considerations.

Revised: 5 July 2004; 27 October 2006