



1 ,2-Benzisothiazolin-3-one, 2-Butyl (BBIT)

Product Stewardship Summary

April 2008

Product Name:	1 ,2-benzisothiazolin-3 -one, 2-butyl
Synonyms:	n-butyl- 1 ,2-benzisothiazolin-3 -one; 2-butyl-benzo [d]isothiazol-3 -one; N-n-butyl- 1 ,2-benzisothiazolone
CAS Name	1 ,2-benzisothiazolin-3-one, 2-butyl
CAS Number	4299-07-4
EINECS Number	420-590-7

- *General Description.* n-Butyl- 1 ,2-benzisothiazolinone (BBIT) is a brown liquid. BBIT is registered by the U.S. EPA under the Federal Insecticide, Fungicide, and Rodenticide Act, and supported in Europe under the Biocidal Products Directive.
- *Manufacture.* During production, potential exposure to the concentrate by humans and the environment is tightly controlled and confined through strong industrial hygiene protocols and processes, engineering of the manufacturing equipment, and the use of personal protective equipment.
- *Applications.* BBIT has a wide range of uses in aqueous-based products to prevent fungal growth and spoilage.
- *Benefits.* BBIT is an effective biocide used as an in-can preserve to protect the integrity of products and extend their effectiveness. It is also an effective fungicide for plastic compositions such as (PVC, polyurethanes, silicone, and acrylics) polymer emulsions, glues and adhesives, paint and coatings, and metal working fluids.
- *General Precautions.* BBIT as a concentrate is slightly toxic if swallowed, but it is not expected to be toxic from dermal contact. BBIT is moderately toxic from acute inhalation exposure,

and it may produce severe irritation to the respiratory tract and lungs if inhaled. Studies show the concentrate is a skin irritant from exposure up to 1 hour, and exposure for 4 hours produced burns to the skin. Once diluted, this is not a concern. BBIT concentrate is considered to be corrosive to the eyes. BBIT has demonstrated the ability to induce skin sensitization to laboratory test animals. However, a concentration of up to 200 ppm (approximate concentration used for product preservation) did not produce a skin sensitization reaction in humans.

- *Likelihood of Exposure.* This product is not sold directly to the individual consumer. It is incorporated into products that are then sold to the general public. During the manufacture of BBIT and its subsequent formulation into various products, exposure to humans and the environment are controlled by engineering controls and personal protective equipment.
- *Risk Management.* Those who handle the concentrated product should read and follow all label directions carefully.

For additional information, please visit our web site at www.archchemicals.com and click on “Contact Us”.

This summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to be, and should not be relied upon as, a substitute for the detailed health and safety information contained in the Material Safety Data Sheet (or any other required hazard communication material) for this product, which should be consulted before use of the chemical or treatment for exposure. As with any product, it is very important to read and carefully follow all label directions and warnings. This summary does not amend, modify, or replace required regulatory and/or legal communication documents.