

## Product safety summary

### Oil Stripper Bottoms (OSB)

#### CAS number & chemical formula

Not applicable. OSB is a mixture of various chemicals.

#### Introduction

DSM Fibre Intermediates, a Business Group of DSM, is a global leader in producing textile-related chemicals with facilities in the Netherlands, United States and China.

#### What is OSB?

OSB is a by-product of the manufacture of cyclohexanone. It is a mixture, consisting mainly of water, sodium carbonate, sodium bicarbonate and smaller amounts of various sodium salts of organic acids. Small residual amounts of cyclohexanone and cyclohexanol are present as well. These contribute to the fuel value of OSB.

#### Use, storage and transport of OSB

There are no public or consumer uses of OSB. The primary use of OSB is in the production process of Kraft paper mills. Kraft paper mills produce an intermediate solution called "black liquor," which has properties similar to OSB. OSB is mixed with the black liquor produced by the mills and burned for the fuel value and recovery of the sodium content. This recycled material is used for further processing of wood pulp in the manufacture of paper.

OSB is transported by bulk trucks and railcars. OSB is not classified and regulated as a chemical that is hazardous for transportation by the various global agencies that regulate transportation.

#### Physical/chemical properties

OSB is a dark colored liquid with a strong, unpleasant odor. It has a boiling point of 106C. It is completely soluble in water. The vapor pressure is unknown. The material has no flammable properties.

#### Health information

Only limited testing for potential health effects has been performed. It has been classified as a skin irritant based on a test for skin irritation. No data are available on the effects after repeated exposure to OSB.

The mixture OSB is considered as irritating to skin, eyes and respiratory tract.

#### Environmental information

If spilled into lakes or streams, damage to the ecosystem may occur due to rapid degradation resulting in extensive oxygen consumption. The BOD (biological oxygen demand) and the COD (chemical oxygen demand) of OSB is, respectively, 94-110 and 274-407 grams oxygen per kilogram OSB.

#### Exposure potential

- **Workplace exposure**

Skin and eye contact is possible during clearing equipment, taking and analyzing of samples, loading and unloading of product shipments. During these kind of activities inhalation exposure is also possible.

- **Consumer exposure to products containing OSB**  
Consumer exposure to OSB will not occur due to its use only in the paper industry. There is no risk for exposure to residuals from processed paper.
- **Environmental releases**  
As all chemicals, OSB emissions are subject to governmental regulations. Under normal conditions no release to the environment will occur. In case of incidental spillage to water, oxygen depletion due to biological degradation may occur.

### **Risk management**

The main risks in using OSB are direct contact with the liquid during clearing, sampling and the loading and unloading of shipments. Risk management is achieved by using personal protective equipment (i.e., safety goggles, long sleeved shirts and pants or coveralls, gloves) and safety procedures. Respiratory protection is not required under normal conditions. In case mist or spray is generated, measures should be taken to prevent respiratory exposure.

Spill collection systems are used at stations for truck and rail loading. Spills are either recycled or sent to the DSM wastewater treatment plant.

### **Contact information**

For further information on OSB or product safety summaries in general, please contact: [info.gps@dsm.com](mailto:info.gps@dsm.com)

#### **Revision) date**

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This product safety summary is intended to give general information about the chemical or categories of chemical addressed. It is not intended to provide an in-depth analysis of health and safety information. Additional information is available through the chemical's applicable Material Safety Data Sheet, which should be consulted before use of the chemical. This product safety summary does not supply or replace required regulatory and/or legal communication documents. All information contained herein is presented on an 'as is' basis and state of technology as per the issue date. The internet disclaimer is applicable ([http://en.dsm.mobi/pda\\_terms\\_eng.html](http://en.dsm.mobi/pda_terms_eng.html)).