

PRODUCT STEWARDSHIP SUMMARY

Basic Copper Nitrate

1. Chemical identity

- Copper hydroxide nitrate, C.A.S. No. 12158-75-7

2. Uses and Applications

Basic Copper Nitrate is an oxidizer component of gas generants for automotive air bag inflators.

3. Physical / Chemical Properties

Basic Copper Nitrate is a blue powder. It is stable under normal conditions, however, it is an oxidizer and will intensify fire. As an oxidizer, it may also cause spontaneous ignition of combustible materials.

4. Globally Harmonized System (GHS) Classification



Danger. May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

5. Exposure

Exposure to Basic Copper Nitrate may occur in industrial applications where engineering controls have failed or are not in place. Exposure can also result when safe work procedures are not followed, or workers do not use personal protective equipment. Exposure to Basic Copper Nitrate may occur during environmental releases if response operations are not conducted properly or in a timely manner.

6. Risk Management

Engineering controls such as exhaust ventilation, dedicated closed systems, leak detection, welded joints, and properly designed storage equipment are recommended to minimize the risk of exposure to Basic Copper Nitrate. Safe work practices and worker training on the handling of oxidizers is also recommended. Personal protective equipment such as safety glasses, impervious gloves, respirators, and work uniforms are necessary to prevent worker exposure. In the event of an environmental release of Basic Copper Nitrate, emergency personnel should follow appropriate



emergency response guidelines for oxidizers, and wear adequate protective equipment to minimize exposure during response operations.

7. Additional Information

- The Shepherd Chemical Company Safety Data Sheets, www.shepchem.com
- Hazardous Substance Data Bank (HSDB), <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>

8. Contact Information

For more information, call (513) 458-6847 or email bpelsor@shepchem.com