

Methyl-1H-benzotriazole, sodium salt

This document provides a brief description of 4(or 5)-methyl-1H-benzotriazole, sodium salt, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS safety data sheet.

Identification

Product Name:	Methyl-1H-benzotriazole
Chemical Name:	Tolytriazole, sodium salt
Synonym(s):	1H-Benzotriazole, 4(or 5)-methyl-, sodium Tolytriazol
CAS Number:	29385-43-1

Description

Overview:	Methyl-1H-benzotriazole, sodium salt is a beige solid. The chemical has a faint characteristic odor.								
Uses:	Methyl-1H-benzotriazole, sodium salt is sold by LANXESS as a 50% aqueous solution. This is primarily sold for use as a corrosion inhibitor in cooling water systems, antifreezes, engine oils, hydraulic fluids, metalworking fluids and cleaning agents.								
Properties:	<table><tr><td>Boiling Point:</td><td>>200°F (93°C)</td></tr><tr><td>Flash Point:</td><td>> 356°F (180°C)</td></tr><tr><td>Melting Point:</td><td>> 190°F (88°C)</td></tr><tr><td>Solubility in Water:</td><td>Soluble</td></tr></table>	Boiling Point:	>200°F (93°C)	Flash Point:	> 356°F (180°C)	Melting Point:	> 190°F (88°C)	Solubility in Water:	Soluble
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Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at transloading facilities and during transfers to storage or staging areas. Workers handling commercial or industrial products manufactured using methyl-1H-benzotriazole, sodium salt as an ingredient may also be exposed to low concentrations of the chemical. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers handling methyl-1H-benzotriazole, sodium salt should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. A NIOSH approved respirator is recommended for transloading, unloading and other operations not contained within a closed system. In addition, LANXESS recommends that safety glasses with side shields, protective clothing, gloves, and foot protection be worn when handling methyl-1H-benzotriazole, sodium salt.

Consumer Exposure

LANXESS does not sell methyl-1H-benzotriazole, sodium salt to the general public. Direct contact with products manufactured using methyl-1H-benzotriazole, sodium salt as an ingredient may expose consumers to trace amounts of the chemical.

Short-Term Health Effects

Methyl-1H-benzotriazole is moderately toxic by ingestion, with symptoms of nausea, vomiting, diarrhea, burning, or ulceration to the digestive tract.

Long-Term Health Effects

No long-term adverse health effects are expected.

Physical Hazards

Methyl-1H-benzotriazole, sodium salt is stable under normal conditions of use. In the case of dusty organic products, the possibility of a dust explosion should always be considered.

Potential Environmental Impact

Methyl-1H-benzotriazole, sodium salt is readily biodegradable. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation. Bioaccumulation is not expected.

Conclusion

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, 4(or 5)-methyl-1H-benzotriazole, sodium salt is not expected to pose a significant risk to human health or the environment.

References

Benzotriazoles: Category Justification and Testing Rationale, Benzotriazoles Coalition, Synthetic Organic Chemical Manufacturers Association (SOCMA)

Safety Data Sheet (SDS), Tolytriazol, LANXESS Corporation

MedlinePlus Medical Encyclopedia, U.S. National Library of Medicine and the National Institutes of Health

Contact Information

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Notices

Use and Application Information

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